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(FILE 'HOME' ENTERED AT 15:16:21 ON 16 APR 2003)

FILE 'CAPLUS' ENTERED AT 15:16:27 ON 16 APR 2003
L1 123 S (ANGIOTENSIN II OR AII) AND (CEREBROVASCULAR OR CEREBRAL INFA

=> d 1-123 cbib abs kwic

- L1 ANSWER 1 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2003:286160 Relationship between oxidized low density lipoprotein and
 angiotensin II in pathogenesis of acute cerebral
 infarction. Wang. Tongyu: Zhang, Yanzong (Department of Internal
 Medicine, Tianjin Bohai Oil Hospital, Tianjin, 300452. Peop. Rep. China).
 Tianjin Yiyao, 30(9). 530-532 (Chinese) 2002. CODEN: TIYADG. ISSN:
 0253-9896. Publisher: Tianjin Yixue Zazhishe.

 AB The relationship between oxidized low d. lipoprotein and
 angiotensin II (Angil) in pathogenesis of acute
 cerebral infarction was studied. The levels of plasma
 OX-LDL and AngII were obsd. in 47 patients with acute cerebral
 infarction, 30 patients with hypertension, and 48 normal controls.
 The levels of plasma ox-LDL and AngII in acute cerebral
 infarction and hypertension were higher than those in controls (P
 <0.01). The levels of plasma ox-LDL and AngII between acute
 cerebral infarction and hypertension were not different
 (P > 0.05). The level of AngII in acute cerebral
 infarction was higher than that in hypertension (P < 0.05). The
 Ox-LDL concn. had a pos. correlation with AngII concn. in acute
 cerebral infarction, which correlation toeeff. was 0.476
 5 (P <0.001). The rise of plasma ox-LDL and AngII might accelerate the
 processes of atherosclerosis and cerebral infarction.
 and these two factors had a pos. correlation each other.
 TRelationship between oxidized low density lipoprotein and
 angiotensin II in pathogenesis of acute cerebral
 infarction

 - infarction
 The relationship between oxidized low d. lipoprotein and infarction The relationship between oxidized low d. lipoprotein and anyiotensin II (Angil) in pathogenesis of acute cerebral infarction was studied. The levels of plasma ox-LUL and Angil were obsd. in 47 patients with acute cerebral infarction. 30 patients with hypertension, and 48 normal controls. The levels of plasma ox-LUL and Angil in acute cerebral infarction and hypertension were higher than those in controls (P < 0.01). The levels of plasma ox-LUL and Angil between acute cerebral infarction and hypertension were not different (P >0.05). The level of Angil in acute cerebral infarction was higher than that in hypertension (P < 0.05). The ox-LUL concn. had a pos. correlation with Angil concn. in acute cerebral infarction, which correlation coeff. was 0.476 5 (P < 0.001). The rise of plasma ox-LUL and Angil might accelerate the processes of atherosclerosis and cerebral infarction, and these two factors had a pos. correlation each other. oxidized low density lipoprotein angiotensin II: cerebral infarction.
 - cerebral infarction
 - L1 ANSWER 3 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:937235 Document No. 138:236198 Polymorphism of renin-angiotensin system
 genes in dialysis patients-association with cerebrovascular
 disease. Losito, Attilio: Kalidas. Kamini: Santoni. Stefania: Ceccarelli.
 Luigi: Jeffery. Steve (Policlinico Monteluce. UOM Refrologia e Dialisi.
 Perugia. I-06122. Italy). Nephrology. Dialysis. Transplantation. 17(12).
 2184-2188 (English) 2002. CODEN: NOTREA. ISSN: 0931-0509. Publisher:
 - uisedse. Losito, Attilio; Kalidas, Kamini; Santoni, Stefania; Geccarellii, Luigi; Jeffery, Steve (Policinico Monteluce. 10 Nefrologia e Dialisi, Derugia. 1-06122. Italy). Nephrology. Dialysis, Transplantation, 17(12), 2184-2188 (English) 2002. CODEN: NOTREA. ISSN: 0931-0509. Publisher: Oxford University Press.
 Polymorphisms of genes of the renin-angiotensin system (RAS) have been found in assocn, with cerebrovascular and cardiovascular diseases in the general population. In dialysis patients, RAS gene polymorphisms have been studied in combination and sep. and have yielded conflicting results. In this study we have analyzed. In 160 dialysis patients, the distribution of the following genetic polymorphisms: R2351 and T174M of the angiotensinogen gene. Al166C of the angiotensin II type I receptor gene and the insertion/deletion (1/D) of the ACE gene. The assocn. of these polymorphisms with cerebrovascular and cardiovascular diseases was also tested. Healthy blood donors and hospital staff (169) were the control group for the distribution of the polymorphisms. The distribution of the polymorphisms in dialysis patients as awhole did not differ significantly from that of healthy controls. However. for patients with severe cerebrovascular disease. 70% carried the D allele compared with 52k of patients without cerebrovascular diseases (P-0.035). We also found that the degree of carotid artery stenosis was significantly correlated with the presence of the ACE 'D' allele in subjects on dialysis (P-0.0348). The distribution of RAS genes in dialysis patients is similar to that of the normal population. The presence of the D allele of ACE gene is assocd. with cerebrovascular disease and the degree of carotid artery stenosis was significantly correlated with the presence of the ACE gene polymorphism of renin-angiotensin system genes in dialysis patients. RAS gene polymorphism for pensence of the ACE gene polymorphism of renin-angiotensin system genes in dialysis patients. RAS gene polymorphism with cerebrovascular diseases.

- L1 ANSWER 2 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2003:168113 Normalization of Endothelial and Inducible Nitric Oxide Synthase Expression in Brain Microvessels of Spontaneously Hypertensive Rats by Angiotensin II ATI Receptor Inhibition, Yanakawa, Haruki; Jezova, Miroslava; Ando, Hiromichi; Saavedra, Juan H. Journal of Cerebral Blood Flow and Metabolism. 23(3). 371-380 (English) 2003. CODEN: JGBMON, ISSN: 0271-6782, Publisher: Lippincott Williams & Wilkins.
 AB Inhibition of angiotensin II AT receptors protects
 against stroke, reducing the cerebral blood flow decrease in the periphery of the ischemic lesion. To clarify the mechanism, spontaneously hypertensive rats (SMR) and normotensive control Wistar Kyoto (KMY) rats were pretreated with the AT receptor antagonist candesartan (0.3 mg .cntdot. kg .cntdot. d) for 28 days, a treatment identical to that which protected SMR from brain ischemia, and the authors studied middle cerebral artery (MCA) and common carotid morphol. endothelial nitric oxide synthase (eNOS) and inducible nitric oxide synthase (iNOS) mRNA (mRNA), and protein expression in cerebral microvessels, principal arteries of the Willis polygon, and common carotid artery. The MCA and common carotid artery of SMR exhibited inward eutrophic remodeling, with decreased lumen diam, and increased media thickness when compared with MXY rats. In addn. there was decreased eNOS and increased iNOS protein and mRNA in common carotid artery, circle of Willis, and brain microvessels of SMR when compared with MXY rats. Both remodeling and alterations in eNOS and iNOS expression in SFR were completely reversed by long-term AT receptor inhibition. The hemodynamic, morphol., and briothen, alterations in hypertension associal, with increased vulnerability to brain ischemia are fully reversed by AT receptor blockade, indicating that AT receptor activation is crucial for the maintenance of the pathol. alterations in cerebrovascular circulation during hypertension, and that their blockade may be of therapeutic advantage.1 1 1 1.

- L1 ANSWER 3 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continue is a risk factor for cerebrovascular disease in dialytic (Continued)
- patients. ACE AT1 receptor angiotensinogen gene polymorphism cerebrovascular
- disease hemodialysis Gene, animal RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 - (Riological study)
 (AGT: anglotensinogen. anglotensin ATI receptor and ACE genes polymorphisms assocn. with cerebrovascular disease in dialysis patients)
- Gene. animal
 RL: BSU (Biological study. unclassified): PRP (Properties): BIOL
 (Biological study)
 (ATI receptors: angiotensinogen. angiotensin ATI receptor and ACE genes
 polymorphisms assocn. with cerebrovascular disease in
 dialysis patients)
 Gene. animal
- dialysis patients)
 Gene, animal
 RL: ADV (Adverse effect. including toxicity): BSU (Biological study.
 unclassified): PRP (Properties): BIOL (Biological study)
 (Ace: angiotensinogen. angiotensin ATI receptor and ACE genes
 polymorphisms assocn. with cerebrovascular disease in
 dialysis patients)
 Allele frequency
 Genetic polymorphism
 Computency

Genotypes Human Hypertension Susceptibility (genetic)

(angiotensinogen, angiotensin ATL receptor and ACE genes polymorphisms assocn, with cerebrovascular disease in dialysis patients)

- (Carotid. stenosis; angiotensinogen, angiotensin ATI receptor and ACE genes polymorphisms assocn. with cerebrovascular disease in dialysis patients) Artery, disease
- Brain. disease

 (cerebrovascular; angiotensinogen, angiotensin ATI receptor
 and ACE genes polymorphisms assocn, with cerebrovascular
 disease in dialysis patients)

 Cardiovascular system
 (disease; angiotensinogen, angiotensin ATI receptor and ACE genes
 polymorphisms assocn, with cerebrovascular disease in
 dialysis patients)

 Kidney (disease)
- IT Kidney, disease
 (failure, chronic: angiotensinogen, angiotensin ATI receptor and ACE
 genes polymorphisms assocn, with cerebrovascular disease in
 dialysis patients)
- | Totalysis | Dialysis | Chemodialysis: angiotensinogen, angiotensin ATI receptor and ACE genes | polymorphisms assocn, with cerebrovascular disease in dialysis patients) | Angiotensin receptors

- ANSWER 3 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (type ATI: angiotensinogen, angiotensin ATI receptor and ACE genes
 polymorphisms assocn, with cerebrovascular disease in
 dialysis patients)
 9015-82-1. Angiotensin-converting enzyme
 11002-13-4. Angiotensingen
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (angiotensinogen, angiotensin ATI receptor and ACE genes polymorphisms
 assocn, with cerebrovascular disease in dialysis patients)

- L1 ANSWER 4 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- ANSWER 4 OF 123 CAPLUS CUPINION 2003

 Tosartan effect on cognitive function)

 114798-26-4. Losartan

 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (angiotemsin II receptor antagonist losartan effect
 on cognitive function)

- L1 ANSWER 4 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:930570 Document No. 138:11276 Does the angiotensin II
 receptor antagonist losartan improve cognitive function? Tedesco.
 Michele A.; Ratti. Gennaro: Di Salvo, Giovanni; Natale, Francesco
 (Department of Cardio-Thoracic and Respiratory Sciences. Second University
 of Naples. Naples. Italy). Drugs & Aging, 19(10), 723-732 (English) 2002.
 CODEN: DRAGEG. ISSN: 1170-229X. Publisher: Adis International Ltd..
 AB Newer classes of antihypertensive agents. such as angiotensin
 II receptor antagonists. may offer benefits to patients in addn.
 to their ability to lower blood pressure. It is accepted that chronic
 hypertension contributes to the development of cerebrovascular
 and cardiovascular disease, and several studies have demonstrated a link
 between hypertension and reduced cognitive function. esp. in patients not
 receiving antihypertensive medication. In an initial clin. trial, the
 angiotensin II receptor antagonist losartan was shown to
 improve cognitive function in patients with hypertension. including in
 those who were elderly (up to 73 yr of age). This effect cannot be
 explained by a redn. In blood pressure alone and is likely to involve
 interactions with the diverse biol. actions of the renin-angiotensin
 system. Improving or maintaining cognitive function in patients with
 hypertension may translate into economic benefits beyond those expected
 due to blood pressure control, and would result in considerable
 quality-of-life benefits for the aging population.

 10 Does the angiotensin II receptor antagonist losartan
 improve cognitive function?

 AB Newer Classes of antinyvertensive agents, such as angiotensin

Antihypertensives

Human

Hypertension

Hypertension
(angiotensin II receptor antagonist losartan effect
on cognitive function)

II Angiotensin receptor antagonists
(angiotensin II angiotensin II
receptor antagonist losartan effect on cognitive function)

II Aging, animal
(elderly: angiotensin II receptor antagonist

- L1 ANSWER 5 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:824769 AII receptor antagonists and cerebrovascular
 protection. Eguchi, Kazuo; Kario, Nanaomi: Shimada. Kazuyuki (Dept. of
 Cardiology, Jichi Medical School, Japan). Ketsuatsu, 9(8), 782-786
 (Japanese) 2002. CODEN: KETSAH. ISSN: 1340-4598. Publisher: Sentan Igakusha.
- Unavailable
 AII receptor antagonists and cerebrovascular protection

ANSWER 6 OF 123 CAPLUS COPYRIGHT 2003 ACS
12:813926 Document No. 137:304829 Enantiomers of N-[[2]-[[(4.5-dimethyl-3-isoxazolyl]) amino]sul foryl]-4-(2-oxazolyl][1.1]-biphenyl]-2-yl]methyl]-1.
N.3.3-trimethyl butanamide. Hughes, David E.; Seidenberg, Beth C.
(Bristol-Hyers Squibb Company, USA). PCT Int. Appl. NO. 2002083130 Al
20021024. 24 pp. DESIGNATED STATES: Nr. AE, AG, AL, AH, AT, AU, AZ, BA,
20021024. 24 pp. DESIGNATED STATES: Nr. AE, AG, AL, AH, AT, AU, AZ, BA,
8B, BB, BP, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LS, LT, LU, LV, MA, DM, MG, MK, MN, MM, MY, MZ, NO, NZ,
CM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM;
RW; AT, BE, BF, BJ, CF, GG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,
GR, IE, IT, LU, MC, ML, NR, NL, PT, SE, SN, TD, TG, TR, (English).
CODEN: PIXXOZ. APPL(CATION: WO 2002-USI1992 20020412. PRIORITY: US
2001-PV284080 20010416.
Endothelin antagonist N-[[2]-[[(4.5-dimethyl-3-isoxazolyl)amino]
sul foryl]-4-(2-oxazolyl)[1,1]-biphenyl]-2-yl]methyl]-N, 3, 3trimethylbutanamide surprisingly exists as separable enantiomeric
atropisomers. The (+)-dextrorotatory atropisomer demonstrates remarkably
higher potency than either the (-)-levorotatory atropisomer or the
racemate. The (+)-dextrorotatory atropisomer is suitable for treatment of
endothelin-related disorders, such as hypertension, renal diseases.
atherosclerosis, restenosis, congestive heart failure, diabetic
nephropathy, cancer, astma, etc., alone or in combination with, e.g.,
angiotensin receptor antagonists.

angiotensin. renin. or ALC Imminions.
antiplatelet agents. etc.
Angiotensin receptor antagonists
(angiotensin II. combination with; therapeutic uses
of enantiomers of biphenyl isoxazole sulfonamide deriv. as endothelin Meninges

(subarachnoid hemorrhage: therapeutic uses of enantiomers of biphenyl isoxazole sulfonamide deriv. as endothelin antagonists)

ANSWER 8 OF 123 CAPLUS COPYRIGHT 2003 ACS 2:755214 Document No. 137:263024 Preparation of N-1soxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists. Nurugesan. Natesan Tellew, John E.: Macor, Jhon E.: Gu, Zhengxiang (USA). U.S. Pat. Appl. Publ. US 2002143024 Al 20021003. 206 pp., Cont.-in-part of U.S. Ser. No. 643.640. abandoned. (English). CODEH: USXXCO. APPLICATION: US 2000-737201 20001214. PRIORITY: US 1998-PV91847 19980706: US 1999-345392 19990701: US 1999-464037 19991215: US 2000-481197 20000111: US 2000-513779 20000225: US 2000-64322 20000626: US 2000-643640 20000822.

Title compds. (I; Rl = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, pyridyloxy, triazolyl, quinollnyloxy, etc.; R2 = H, halo, CHO, (haloJalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, CH, NO2, etc.; R3 = heteroaryl; R101-R104 = H, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, nloc, cHo, alkyl, haloalkoxyalkyl, alkoxy, alkoxyalkoxy, cyano, CH, hydroxyalkyl, NO2, etc: with provisos) were prepd. as dual angiotensin II and endothel in receptor antagonists for treatment of hypertension and other diseases (no data). Thus, 4-BrCGHCH2CH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)]((2-methoxyethoxy)methyl]mino|sulfonyl]phronic acid to give N-(4.5-dimethyl-3-isoxazolyl)-2-sulfonamide (66%). This was brominated to give the 4-bromomethyl deriv. (90%), reacted with 2-butyl-1.3-diazaspirof4.4]non-1-en-4-one hydrochloride, and deprotected (49% for two steps) to give 4-(2-butyl-4-ox-1)-3-diazaspirof4.4]non-1-en-3-yl)methyl-N-(4.5-dimethyl-3-isoxazolyl)-[1.1-biphenyl]-2-sulfonamide. Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothel in receptor

antagonists.

alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, haloalkoxyalkyl, alkoxy, alkoxy, alkoxy, cyano, OH, hydroxyalkyl, NO2, etc: with provisos) were prepd. as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no dta). Thus, 4-BrC6H4CH2OH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)[(2-methoxyethoxy)methyl]amino]sulfonyl]ph

ANSMER 7 OF 123 CAPLUS COPYRIGHT 2003 ACS

12:812991 Document No. 137:332652 Angiotensin-converting enzyme inhibitors: Are there credible mechanisms for beneficial effects in diabetic neuropathy? Malik, Rayaz A.: Tomlinson, David R. (Department of Medicine, Manchester Royal Infirmary, Hanchester, M13 9NL, UK). International Review of Neurobiology. 50(Neurobiology of Diabetic Neuropathy). 415-430 (English) 2002. COOCEN: IRNEAE. ISSN: 0074-7742. Publisher: Academic Press.
A review. ACE inhibitors have surpassed all predictions for their widespread use in clin. medicine. Initially deemed useful only in a select group of patients with renovascular hypertension (Di Giulio et al. 1981). they now constitute the panacea for the treatment of diabetes and its complications. Ischemic heart and cerebrovascular disease. and nephropathy from a variety of causes. The pharmacol of ACE inhibition is complex and provides for a no. of major interactions with pathogenetically relevant pathways resulting in human diabetic neuropathy. This article reviews the vascular basis for diabetic neuropathy and discusses clin. trials utilizing ACE inhibitor therapy. The physiol. of Angiotensin II and the vasodilatory effect of ACE inhibitors are reviewed along with the effect on the renin/angiotensin system. (C) 2002 Academic Press.

Giulio et al. 1981), they now constitute the panacea for the treatment of diabetes and its complications. Ischemic heart and cerebrovascular disease, and nephropathy from a variety of causes. The pharmacol. of ACE inhibition is complex and provides for a no.. This article reviews the vascular basis for diabetic neuropathy and discusses clin. trials utilizing ACE inhibitor therapy. The physiol. of Angiotensin II and the vasodilatory effect of ACE inhibitors are reviewed along with the effect on the renin/angiotensin system. (C) 2002 Academic.

9 015-94-5. Renin, biological study. unclassified): BIOL (Biological study)

II RL: BSU (Biological study. unclassified); BIOL (Biological study) (angiotensin-converting enzyme inhibitors for diabetic neuropathy patients)

1 AKSWER 8 0F 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
enyl]boronic acid.
254746-03-7P. (1.1'-Biphenyl]-2-sul fonamide. N-(3.4-dimethyl-5-isoxazolyl)-2'-(3-fluoropropyl)-4'-(hydroxymethyl)-N-[[2-((trimethylsilyl)oxy]ethoxy]m
ethyl]- 254746-04-8P. [1.1'-Biphenyl]-2-sul fonamide.
N-(3.4-dimethyl-5-isoxazolyl)-2'-(3-fluoropropyl)-4'[(methylsulfonyl)oxy]methyl]-N-[[2-((trimethylsilyl)oxy]ethoxy]methyl]254746-06-0P 254746-07-P. Methanesul fonic acid. trifluoro2-acetyl-4-bromophenyl ester 254746-09-Rethanesul fonic acid.
trifluoro- 4-bromo-2-(1.1-difluoroethyl)-Methanesul fonic acid.
trifluoro- 4-bromo-2-(1.1-difluoroethyl)-Methanesul fonic acid.
trifluoro- 4-bromo-2-(1.1-difluoroethyl)-1-dromo-1-dromyl-Methyl-S4746-09-P.
Methanesul fonic acid. trifluoro- 2-(1.1-difluoroethyl)-1-dromyl-Methyl-S4746-11-PP. [1.1'-Biphenyl]-2-sul fonamide. 2'-(1.1-difluoroethyl)-1-dromyl-Methyl-1-dromyl-Methyl-1-S4746-11-PP. [1.1'-Biphenyl]-2-sul fonamide. 2'-(1.1-difluoroethyl)-1-Methyl-1-dromyl-Methyl-1-S4746-11-PP. [1.1'-Biphenyl]-2-sul fonamide. 2'-(1.1-difluoroethyl)-1-Methyl-1-Me L1 ANSWER 8 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 9 OF 123 CAPLUS COPYRIGHT 2003 ACS
.754383 Document No. 137:262959 Preparation of 1.2.3.4tetrahydroisoquinoliny) ureas and related derivatives as urotensin 11
receptor antagonists. A rissaou!, Hamed: Binkert. Christoph: Cloze!,
Martine: Mathys. Boris: Mueller. Claus: Nayler. Oliver: Scherz. Michael:
Weller. Thomas (Actelion Pharmaceuticals Ltd., Switz.: Velker. Joerg).
PCT Int. Appl. NO 2002076979 Al 20021003. 94 pp. DESIGNATED STATES: W:
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,
IL, IN, IS, JP, KE, NG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, ND,
GM, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO; RN: AT, BE, BF, BJ,
CF, GG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC,
ML, MR, NE, NL, PT, SE, SN, TD, TG, TR, (English). CODEN: PIXXD2.
APPLICATION: WO 2002-EP3131 20020320. PRIORITY: WO 2001-EP3422 20010327;
WD 2001-EP9845 20010827. ANSWER 9 OF 123 CAPLUS COPYRIGHT 2003 ACS

The invention relates to novel 1.2.3.4-tetrahydroisoquinoline derivs. (shown as 1; e.g. 1-[2-[1-(4-Fluorobenzy])-6.8-dimethoxy-3.4-dihydro-1H-isoquinolin-2-y]lethy[]-3-(2-meth)quinolin-4-y])urea) and related compds. and their use as active ingredients in the prepn. of pharmaceutical compns. The invention also concerns related aspects including processes for the prepn. of the compds. (but not claimed), pharmaceutical compns. contg. one or more of those compds. and esp. their use as neurohormonal antagonists esp. urotensin II antagonists. In 1. X = -CH2-. -CH2CH2-. -CH2CH2- 9 0. NH; n = 1. 2; Z = quinolin-4-yl which may be sonosubstituted with lower alkyl in the positions 2.6 or 2.8. (1.8)naphthyridin-4-yl which may be substituted in position 7 with lower alkyl: pyridin-4-yl which may be substituted in position 7 with R7R8N- and addnl. in position 6 with H or lower alkyl. R1 = naphthalen-1-yl: naphthalen-2-yl: benzo[1.3]dioxol-5-yl: benzyl. or mono. di. or trisubstituted benzyl substituted in the Ph ring independently with lower alkyl. Jower alkyloxy. trifluoromethyl. halogen. cyano; Ph. or mono. di-or trisubstituted Ph. substituted independently with lower alkyl ory forms with R1 a styryl group of E or Z geometry, whereby the Ph ring in the styryl group be mono. di- or trisubstituted Ph. substituted independently whereby the Ph ring in the styryl group be mono. di- or trisubstituted Ph. substituted independently with lower alkyl. lower alkyloxy. trifluoromethyl, halogen.

Page 5

ANSMER 8 0F 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

[[2-[(trimethylsilyl)oxy]ethoxy]methyl]- 254746-72-0P. Benzoic acid.
4-brono-3-[(1.1-dimethylethoxy)methyl]- methyl ester 254746-73-1P.

[[1.1-Biphenyl]-4-carboxylic acid. 2-[(1.1-dimethylethoxy)methyl]-2°.

[[(3.4-dimethyl-5-isoxazoly)][[2-(trimethylsilyl)oxy]ethoxy]methyl]aminol

sulfonyl]-. methyl ester 254746-74-2P. [[1.1-Biphenyl]-2-sulfonamide.

2°-[(1.1-dimethylethoxy)methyl]-N-(3.4-dimethyl-5-isoxazolyl)-4°-(hydroxymethyl)-N-[[2-[(trimethylsilyl)oxy]ethoxy]methyl]- 254746-75-3P.

[[1.1-Biphenyl]-2-sulfonamide. 4°-(bronomethyl)-2°-[(1.1-dimethylethoxy)methyl]- 1254746-75-3P.

[[1.1-Biphenyl]-2-sulfonamide. 4°-(bronomethyl)-2°-[(1.1-dimethylsilyl)-N-[(2-(Reactant or reagent)

(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor

dual angiotensin 11 and elucities in reception antagonists)
50-78-2. Aspirin 52-01-7. Spironolactone 10238-21-8. Glyburide
51384-51-1. Netoprolol 55142-85-3. Ticlopidine 72956-09-3. Carvedilol 75330-75-5. Lovastatin 79902-63-9. Simvastatin 81093-37-0. Pravastatin 107724-20-9. Epierenone 113665-84-2. Clopidogrel 134523-00-5. Atorvastatin 147098-20-2. 2d-4522 147526-32-7. NK 104 150322-43-3.

RL: TMU (Therapeutic use): BIOL (Biological study): USES (Uses) (prepn. of N-isoxazolyl biphemylsulfonamides and related compds. as dual angiotensin II and endothe

SYSTEM LIMITS EXCEEDED

L1 ANSWER 9 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) cyano. R3, R4, R5 and R6 independently = H, cyano, hydroxy, lower alkyloxy, aralkyloxy, lower alkeryloxy, and R5 addnl. = R7RBNCO; R4 and R5 together may form with the Ph ring a five or a six-membered ring conto, one or two 0 atoms: R7 and R8 independently represent H, lower alkyl, aryl, aralkyl, or together with the N form a pyrrolidine, piperidine, or morpholine ring. Test results for 4 of the claimed compds. regarding inhibition of human [1251]-urotensin II binding to a rhabdomyosarcoma cell line (1650 = 67-550 nM) and for 2 compds. regarding inhibition of human urotensin II-induced contractions of isolated rat aortic arch (pD2' = 5.23, 5.45) are reported. Although the methods of prepn. are not claimed. a no. of examples of prepn. of intermediates and target compds. are included. included.

included.
Angiotensin receptor antagonists
(angiotensin II: in combination with
tetrahydroisoquinoline ureas and related deriv. urotensin II receptor
antagonists for treatment of various disorders)

inges (subarachnoid hemorrhage: prepn. of tetrahydroisoquinoline ureas and related derivs. as urotensin II receptor antagonists for treatment of various disorders)

- ANSWER 10 OF 123 CAPLUS COPYRIGHT 2003 ACS
 12:716094 Document No. 137:226612 Antihypertensive agent and cholesterol absorption inhibitor combination therapy. Nichtberger, Steven A. (Nerck & Co., Inc., USA). PCT Int. Appl. NO 2002072104 A2 20020919, 29 pp. DESIGNATED STATES: W: AE, AG, AL, AN, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, CM, DZ, EC, EE, ES, FT, GB, GD, GE, GR, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LS, LT, LU, LY, NA, MD, NG, MK, NM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, S1, SK, SL, TJ, MH, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH; RW; AT, BE, BF, BJ, CF, CG, CH, CI, CH, CY, DE, DK, ES, FT, FR, GA, GB, GR, IE, IT, LU, MC, ML, NR, NL, PT, SE, SN, TD, TG, TR, (English). CODEN: PIXXO2. APPLICATION: MO 2002-U56570 20020305. PRIORITY: US 2001-PV274288 20010308.

 The invention includes methods for treating atherosclerosis and preventing atherosclerotic disease events in a hypertensive patient comprising administering to the patient a therapeutically or prophylactically effective amt. of at least one antihypertensive compd. in combination with a therapeutically effective amt of a cholesterol absorption inhibitor. The invention also includes a compn. comprising at least one antihypertensive compd. and a cholesterol absorption inhibitor in therapeutically effective amts... and a pharmaceutically acceptable carrier.

- therapeutically effective auts... and a paramaceuteary carrier.

 Angiotensin receptor antagonists
 (angiotensin II; antihypertensive agent and cholesterol absorption inhibitor combination therapy)

 Brain, disease
 - inn. disease (cerebrovascular; antihypertensive agent and cholesterol absorption inhibitor combination therapy)

- ANSWER 12 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2:551880 Document No. 138:214719 The renin-angiotensin system in the brain: possible therapeutic implications for ATI-receptor blockers. Culman. J.; Blume. A.; Gholke. P.; Unger. T. (Institute of Pharmacology. Christian-Albrechts-University of Kiel. Kiel. 24105. Germany). Journal of Human Hypertension. 16(Suppl. 3). 564-570 (English) 2002. CODEN: JHHTEN. ISSN: 0950-9240. Publisher: Mature Publishing Group. A review. Blochem. physiol. and functional studies suggest that the brain renin-angiotensin system (RAS) is regulated independently of the peripheral RAS. The classical actions of angiotensin III in the brain include blood pressure control. drinking behavior. natriuresis and the release of vasopressin into the circulation. At least two subtypes of G-protein coupled receptors. the ATI and the ATZ receptor. have been identified. Most of the classic actions of angiotensin II in the brain are mediated by ATI receptors. The ATZ receptor is involved in brain development and neuronal regeneration and protection. Addnl.. ATZ receptors can modulate some of the classic angiotensin II actions in the brain. Selective non-peptide ATI receptor blockers, applied systemically. have been shown to inhibit both peripheral and brain ATI receptors may contribute to the blood pressure lowering effects of ATI receptor blockers. Animal studies have show that ATI receptor antagonists enable endogenous angiotensin II to stimulate neuronal regeneration via activation of ATZ receptors. In animal models, inhibition of the brain RAS proved to be beneficial with respect to stroke incidence and outcome. Blockade of brain and cerebrovascular ATI receptors by ATI receptor blockers prevents the redn. in blood flow during brain ischemia, reduces the vol. of ischemic injury and improves neurol. outcome after brain ischemia. This paper reviews the actions of angiotensin II and its receptors blockede in neuroprotection, neuroregeneration, cerebral hemodynamics and ischemia.

- L1 ANSWER 11 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:551882 Document No. 138:214720 Potential for antihypertensive treatment with an AT1-receptor blocker to reduce dementia in the elderly. Trenkwalder. P. (Starnberg Nospital.) Department of Internal Medicine. Ludwig Maximilian University Munich, Starnberg, Germany). Journal of Human Hypertension, 16(Suppl. 3), S71-S75 (English) 2002. CODEN: JHHYEN. ISSN: 0950-9240. Publisher: Nature Publishing Group.
 AB A review. Hypertension is an established risk factor for stroke and other cerebrovascular disorders. Both stroke and small lacunar infarcts or white matter lesions can cause cognitive imparment and dementia, and there is evidence that vascular risk factors play a major role in the development of both Alzheimer's disease and vascular dementia. Several large epidemiol. studies have shown that raised blood pressure in midlife is a strong risk factor for dementia later in life; however, blood pressure often decreases following the development of dementia. The cognitive function hypothesis proposes that elevated blood pressure increases the risk of decline of cognitive function, and that this can be reversed by active lowering of blood pressure. Evidence in support of this hypothesis comes from the Syst-Eur Dementia project, and from a no. of smaller studies. SCOPE (Study on Cognition and Prognosis in the Elderly) is a large prospective study involving almost 5000 elderly patients (age 70-89 yr), who are randomized to receive candesartan cilexetil. 8-16 mg, or placebo. Candesartan was chosen for this study because it is effective and well tolerated in elderly patients. SCOPE should provide important information on the long-term effects of ATI-receptor blocker treatment with candesartan on morbidity-including effects on cognitive function—and cardiovascular mortality in elderly hypertensive patients.

 AB A review. Hypertension is an established risk factor for stroke and other cerebrovascular disorders. Both stroke and small lacunar infarcts or white matter lesions can
- - Angiotensin receptor antagonists
 (angiotensin II. ATI: potential for
 antihypertensive treatment with ATI-receptor blocker to reduce dementia in elderly humans)

- ANSWER 12 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) during brain ischemia. reduces the vol. of ischemic injury and improves neurol. outcome after brain ischemia. This paper reviews the actions of angiotensin II and its receptors in the brain. and discusses the possible consequences of AII receptor blockade in neuroprotection, neuroregeneration, cerebral hemodynamics. . Angiotensin receptor antagonists
- Angiotensin Feeepub alreagories and goldensin system in brain and possible therapeutic implications for ATI-receptor blockers) 9015-94-5. Renin, biological studies 11128-99-7. Angiotensin
- RL: BSU (Biological study, unclassified): BIOL (Biological study) (renn-angiotensin system in brain and possible therapeutic implications for ATI-receptor blockers)

- ANSWER 13 OF 123 CAPLUS COPYRIGHT 2003 ACS

 12:551864 Document No. 138:214712 The problem of uncontrolled hypertension. Lindholm. L. H. (Department of Public Health and Clinical Medicine. Morrlands University Hospital, Umea. Swed.). Journal of Human Hypertension. 16(Suppl. 3). S3-S8 (English) 2002. CODEN: JHHYEN. ISSN: 0950-9240. Publisher: Nature Publishing Group.

 A review. It is well established that there is a continuous relationship between raised blood pressure and the risk of cardiovascular or cerebrovascular disease. Both systolic and disatolic hypertension are assocd. with increased risk, but systolic blood pressure appears to be a more important determinant of risk than diastolic blood pressure. Randomized controlled trials have clearly shown that lowering blood pressure results in significant redns. in cardiovascular mortality and morbidity, and hence current hypertension management guidelines recommend target blood pressures of below 140/90 m Hg (135/85 m Hg in the case of the WHO/ISH guidelines). Despite the clear evidence for the benefits of antihypertensive therapy, however, blood pressure is often not adequately controlled in clin. practice. Population surveys indicate that the proportion of patients achieving even conservative blood pressure targets may be only 20% or lower. A no. of factors contribute to poor control of hypertension, including a focus by the physician on diastolic blood pressure, rather than the prognostically more important systolic pressure, and poor adherence to therapy by patients. Poor adherence may be largely attributable to adverse events, and there is evidence that the excellent tolerability profile of angiotensin II type 1 (ATI)-receptor blockers may help to increase the proportion of patients remaining on therapy. ATI-receptor blockers could thus make a potentially important contribution to solving the problem of uncontrolled hypertension.
- hypertension.

 It is well established that there is a continuous relationship between raised blood pressure and the risk of cardiovascular or cerebrovascular disease. Both systolic and diastolic hypertension are assocd, with increased risk, but systolic blood pressure appears to be a more. patients. Poor adherence may be largely attributable to adverse events, and there is evidence that the excellent tolerability profile of angiotensin II type I (ATI)-receptor blockers may help to increase the proportion of patients remaining on therapy. ATI-receptor blockers could thus make.

 Angiotensin receptor antagonists (angiotensin II: uncontrolled hypertension problems and benefits of antihypertensive treatment in humans)

- L1 ANSWER 15 OF 123 CAPLUS COPYRIGHT 2003 ACS 2002:540258 Document No. 137:109267 Preparation of benzoxepinopyridines as HMG-CoA reductase inhibitors. Robl. Jeffrey A.: Chen. Bang-Chi: Sun. Chong-qing (USA). U.S. Pat. Appl. Publ. US 2002094977 Al 20020718. 42 pp. Cont. -in-part of U.S. Ser. No. 875:155. (English). CODEN: USXXCO. APPLICATION: US 2001-7407 20011204. PRIORITY: US 2000-PV211595 20000615: US 2001-875155 20010606.
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

GI

- Title compds. I [X = 0. S. S0. S02. NR7: Z = HOCHZEH(OH)CHZCOZR3.
 4-hydroxy-2-oxopyran-6-yl. etc.; n = 0. 1: Rl. R2 = alkyl. arylalkyl.
 cycloalkyl, alkeyl. cycloalkeyl. aryl. heteroaryl. cycloheteroalkyl: R3
 = H. alkyl. metal ion: R4 = H. halo. Cf3. etc.: R7 = H. alkyl. aryl.
 alkanoyl. aroyl. alkoxycarboxyl. etc.: R9. Rl0 = H. alkyll. aryl.
 alkanoyl. aroyl. alkoxycarboxyl etc.: R9. Rl0 = H. alkyll. were prepd. as
 HMG CoA reductase inhibitors active in inhibiting cholesterol
 biosynthesis. modulating blood serum lipids such as lowering LDL
 cholesterol and/or increasing HDl cholesterol. and treating
 hyperlipidemia. hypercholesterolemia. hypertriglyceridemia and
 atherosclerosis (no data). A multistep synthesis of II is reported.
 Angiotensin II. coadministered agents: prepn. of
 beroxeptinopyridines as HMG-CoA reductase inhibitors for treatment of
 hyperlipidemia. hypercholesterolemia. hypertriglyceridemia.
 atherosclerosis, and other disorders)
 Brain. disease
- Corebrovascular, treatment; prepn. of benzoxepinopyridines as MMG-CoA reductase inhibitors for treatment of hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, atherosclerosis, and other deterolemia.

- L1 ANSWER 14 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:546382 Document No. 137:118939 Ambulatory blood pressure in heart
 failure. Jamieson. M. J.: Jamieson. C. (Department of Pharmacology.
 University of Texas Health Science Center San Antonio. San Antonio. USA).
 Klinische Pharmakologie. 20(Digitalis Glycosides: Vascular Sites of
 Action). 27:37 (English) 2002. COOEN: KLPHEH. ISSN: 9937-978.
 Publisher: M. Zuckschwerdt Verlag GmbH.

 AB A review. Ambulatory blood pressure monitoring (ABPH) is accepted in the
 evaluation and management of hypertension. The use of ABPM in heart
 failure has received considerably less attention. Many patients with
 advanced heart failure experience disabling fatigue. orthostatic dizziness
 and symptoms of coronary and cerebrovascular insufficiency that
 may relate to periods of hypotension. These may be exacerbated by
 vasodrilator drug therapy and may be difficult to evaluate by casual clinic
 recordings. ABPM in heart failure may help in: evaluating time-dependent
 pharmacodynamic drug effects. such as peak and end-of-dose phenomena.
 tolerance and rebound. (ii) Litrating ACE inhibitors and other drugs to
 highest-tolerated doses. (iii) correlating circadian blood pressure
 profiles with symptoms. quality of life. severity of heart failure.
 progression of ventricular and renal dysfunction. risks of stroke and
 myocardial infarction. and life expectancy. Devices for ABPM have been
 beset by problems of inaccuracy and unreliability. Stds. for their manuf.
 and sale (including bench tests of accuracy against sphygomanometry and
 intra-arterial recordings. and field tests of reliability) have been
 beset by problems of inaccuracy and unreliability. Stds. for their manuf.
 and sale (including bench tests of accuracy against sphygomanometry and
 intra-arterial recordings. and field tests of reliability) have been
 beset by problems of inaccuracy and intellation of reliability of ABPM devices for hybertensive
 patients and those under general anesthesia. and may not be applicable to
 ambulant individuals with hear

 - ANSWER 16 OF 123 CAPLUS COPYRIGHT 2003 ACS 12:392237 Document No. 136:401651 Preparation of fused pyridine derivatives as HMG-CoA reductase inhibitors. Robl. Jeffrey A.; Chen. Bang-Chi: Sun. Chong-Qing (USA). U.S. Pat. Appl. Publ. US 2002061901 Al 20020523. 46 pp., Cont.-in-part of U.S. Ser. No. 875.218. (English). CODEN: USXXCO. APPLICATION: US 2001-875218 20010606.
 - H
 - The title compds. I and their pharmaceutically acceptable salts, esters, prodrug esters, and stereoisomers are claimed [wherein: Z = CHO(H)CHOCRY(OH)CHCCCRS or corresponding pyranone lactone derivs.; n = 0. 1; x = 0. 1, 2, 3, or 4, y = 0. 1, 2, 3 or 4, provided that at least one of x and y is other than 0: and optionally one or more carbons of (CH2)x and/or (CH2)x together with addnl. carbons form a 3 to 7 membered spirocyclic ring; Rl. R2 = alkyl. arylalkyl. cycloalkyl, alkenyl. cycloalkenyl. aryl. heteroaryl. cycloeteroalkyl. R3 = Ho Tower alkyl: R8 = Ho. lower alkyl. alkenyl. cycloalkenyl. aryl. heteroaryl. cycloeteroalkyl. R3 = Ho Tower alkyl: R8 = Ho. lower alkyl. cycloalkenyl. aral enhibitors, and are active in inhibiting cholesterol (will are inhibitors, and are active in inhibiting cholesterol biosynthesis and modulating blood serum lipids. for example. lowering LDL cholesterol and/or increasing HDL cholesterol (no data). I are thus useful in treating hyperlipidenia and dyslipidenia. in hormone replacement therapy, and in treating hypercholesterolemia. hypertriplyceridenia and atherosclerosis, as well as Alzheimer's disease and osteoporosis. Prepos. of several compds. are described. For instance, a multistep synthesis of fused pyridine deriv. Il is reported. Compds. I may be used in a manner similar to atorvastatin, pravastatin, simusatatin, etc. Combinations of compds. I with various other drugs are claimed, the latter being specified as certain pharmacol. classes, as inhibitors of specific enzymes, as (ant)agonists of specific receptors, and as numerous named drugs. Angiotensin II, therapeutic comps. also contg.

 antagonists of; prepn. of fused pyridine derivs. as HMG-CoA reductase inhibitors)

 Brain, disease
 - IT Brain, disease

ANSWER 16 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(cerebrovascular, treatment; prepn. of fused pyridine derivs.
as HMG-CoA reductase inhibitors)

Ll

ANSWER 17 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) describing the app. assembly and operation are given.

. particularly, the present invention provides an assay to detect parameters assocd. with a vascular disease including cardiovascular, stroke, pulmonary, renovascular, cerebrovascular, thrombotic or generalized arterial or venous condition or event including acute coronary syndrome such as but not limited to acute.

in a coma. It is also useful in detg. the risk of a vascular disease including cardiovascular, stroke, pulmonary, renovascular, cerebrovascular, thrombotic or generalized arterial or venous conditions or events in a healthy subject or a subject entering into an exposure.

Angiotensin receptors

or a subject entering into an exposure.

Anglotensin receptors
RL: ANT (Analyte): DGN (Diagnostic use); ANST (Analytical study): BIOL
(Biological study): USES (Uses)
(anglotensin II: Immunol. diagnostic device for
systemic vasculature conditions)

- L1 ANSWER 17 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:220928 Document No. 136:229049 immunological diagnostic device for systemic vasculature conditions. Christopherson. Richard Ian: Dos Remedios. Cristobal Guillermo: Celermajer. David Stephen (University of Sydney, Australia). PCT Int. Appl. No 200202319 Al 20020321. 39 pp. DESIGNATED STATES: N: AE. AS. AL. AM. AT. AU. AZ. BA. BB. 6G. SR. BY. BZ. CA. CH. CN. CO. CR. CU. CZ. DE. DK. DN. DZ. EC. EE. ES. F1. GB. 60. GC. GH. GH. PR. HU. ID. II. IN. IS. JP. KE. KG. KP. KR. KZ. LC. KL. KL. K. LS. LT. LU. R. M. NO. MG. MK. MN. HW. MX. MZ. NO. NZ. PH. PL. PT. RD. RU. SD. SE. SG. S1. SK. SL. TJ. TH. TT. TZ. JUA. UG. US. UZ. VN. YU. ZA. ZW. AM. AZ. BY. KG. KZ. MD. RU. TJ. TH. RW. AT. BE. BF. BJ. CF. CG. CH. CI. CH. CY. DE. DK. ES. F1. FR. GA. GB. GR. IE. IT. LU. NC. ML. MR. NE. NL. PT. SE. SN. TD. TG. TR. (English). COORE: PIXXOZ. APPLICATION: WO 2001-AU1141 20010912. PRIORITY: AU 2000-56 20000912.

 AB The invention concerns a diagnostic device including a prognostic assay for parameters which are indicative of a condition or event assocd. with the systemic vasculature. More particularly, the present invention provides an assay to detect parameters assocd. with a vascular disease including cardiovascular. stroke, pulmonary. renovascular. cerebrovascular. thrombotic or generalized arterial or venous condition or event including acute coronary syndrome such as but not limited to acute myocardial infarction. heart failure. atheromona or a thrombotic condition. The identification of these parameters or more particularly a pattern of parameters enables the diagnosis of a condition or event or the detn. of the risk of development of a condition or event or be event or the detn. of the risk of development of a condition or event or event or standard members has or have specific or generic binding partners in a biol. sample from an animal including human subject wherein one or more of said members has or have specific or generic binding partners is indicative, predictive or otherw

- ANSWER 18 OF 123 CAPLUS COPYRIGHT 2003 ACS

 102:8884 Document No. 136:209935 Vascular effects of newer cardiovascular drugs: focus on nebivolol and ACE-inhibitors. Luscher. Thomas F.;

 Spieker. Lukas E.; Noll. Georg: Cosentino. Francesco (Division of Cardiology, University Hospital. Zurich. CH-8091, Switz.). Journal of Cardiovascular Pharmacology. 38(Suppl. 3). S3-S11 (English) 2001. CODEN: JCPOT. ISSN: 0160-246. Publisher: Lippincott Williams & Wilkins.

 A review. Alterations in the function and structure of the blood vessel wall account for most clin. events in the cornorary and cerebrovascular circulation such as myocardial infarction and stroke. Cardiovascular drugs may exert beneficial effects on the vascular wall both at the level of the endothelium and vascular miscile cells. Therefore. endothelial mediators. in particular nitric oxide (NO) and endothelin (ET). are of special interest. Drugs can modulate the expression and actions of NO. a vasodilator with antiproliferative and antithrombotic properties. and of ET. a potent vasoconstrictor and proliferative mitogenic agent. The most successful drugs in this context are statins and angiotensin-converting enzyme (ACE)-inhibitors. While statins increase the expression of NO synthase. ACE-inhibitors increase the release of NO via bradykinin-mediated mechanisms. Antitoxidant properties of drugs are also important. as oxidative stress is crucial in atherosclerotic vascular disease. These properties may explain part of the effects of calcium antagonists and ACE-inhibitors. Indeed, angiotensin II stimulates NAO(P)H oxidases responsible for the formation of superoxide, which inactivates NO. ACE-Inhibitors thus increase the bioavailability of NO. Newer cardiovascular drugs such as nebivolol are able to directly stimulate NO release from the evote wall by preventing the effects of ET at its receptors and by reducing ET prodn. in summary, cardiovascular drugs have important effects on the vessel wall, which may be clin. relevant for the prevention and treatment of c

- ANSWER 19 OF 123 CAPLUS COPYRIGHT 2003 ACS 1:933406 Document No. 136:48448 Method using a rapamycin in the treatment of cardiovascular disease. Azrolan, Neal Ivan; Sehgal, Surendra Nath: Adelman, Steven Jay (American Hone Products Corporation. USA). PCT Int. Appl. No. 2001097809 A2 20011227. 17 Pp. DESIGNATED STATES: W: AE. AG. AL. AM. AT. AU. AZ. BA. BB. BG. BR. BY. BZ. CA. CH. CN. CO. CR. CU. CZ. DE. DK. DM. OZ. EC. EE. ES. FI. BG. BG. GE. GH. GM. HR. HJ. ID. IL. IN. IS. JP. KE. KG. KF. KR. KZ. LC. LK. LR. LS. LT. LU, LV. MA. MO. MG. MK. NN. MM. MX. NO. NO. NZ. PL. PF. RO. RU. SO. SE. SG. SI. SK. SL. TJ. TM. TR. TT. CJ. AU. GG. UZ. VN. TU. ZA. ZM. AM. AZ. BY. KG. KZ. MD. RU. TJ. TM. FRH: AT. BE. BF. BJ. CF. CG. CH. CI. CM. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. NC. M. RN. RE. NI. PT. SE. SN. TD. TG. TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US19179 20010614. PRIORITY: US 2000-PV212117 20000616. The invention provides a method of treating or inhibiting cardiovascular cerebral vascular or peripheral vascular disease in a mammal in need thereof, which comprises providing the mammal an effective amt. of a rapamycin.
- rapamycin cardiovascular cerebrovascular peripheral vascular ST disease
- Angiotensin receptor antagonists
 (angiotensin II: rapamycin compd. for treatment of
 cardiovascular disease)
- Brain. disease (cerebrovascular; rapamycin compd. for treatment of cardiovascular disease)

- ANSWER 20 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) inhibitors, and mixts, thereof. The invention further provides methods for treating or preventing ischemic heart disorders, myocardial infarction, angina pectoris, stroke, migraine, cerebral hemorrhage, cardiac fatalities, transient ischemic attacks, complications following organ transplants, coronary artery bypasses, angioplasty, endarterectomy, atherosclerosis, pulmonary embolism, bronchial asthma, bronchitis, pneumonia, circulatory shock of various.

 Angiotensin receptor antagonists (angiotensin II: thromboxame inhibitors, compns., and methods for therapeutic use)
- and methods for therapeutic use)

L1 ANSWER 21 OF 123 CAPLUS COPYRIGHT 2003 ACS 2001:824362 Document No. 137:41454 Pre-treatment with candesartan protects from cerebral ischaemia. Ito. Takeshi: Nishimura. Yasuaki: Saavedra. Juan (Section on Pharmacology, NIHM, HM, Bethesda. MO. 20892, USA). JRAAS. 2(3). 174-179 (English) 2001. CODEN: JRAAAG. ISSN: 1470-3203.

- (Section on Pharmacology, NIMH, NIH, Bethesda, MD, 20992, USA). JRAAS. 2(3), 174-179 (English) 2001. CODEN: JRAAMG. ISSN: 1470-3203. Publisher: JRAAS Ltd.. Angiotensin II (Ang II) regulates cerebral blood flow by stimulating cerebral vasoconstriction via ATI- receptors. In adult spontaneously hypertensive rats (SRR), the cerebrovascular autoregulatory curve is shifted to the right, in the direction of higher blood pressures. an indication of excessive cerebrovascular vasoconstriction. A restricted capacity to dilate cerebral blood vessels may be responsible for the enhanced vulnerability to cerebrovascular ischemia during hypertension. We found that chronic treatment with the ATI-receptor antagonist, candesartan. (0.5 mg/kg/day for 14 days, via osmotic minipumps implanted in the s.c. tissue) blocked Ang II binding to ATI-receptors in cerebral blood vessels and in brain areas involved in the regulation of cerebrovascular flow. and increased the ratio of lumen-wall area in the middle cerebral artery. Candesartan treatment normalized the lower part of the autoregulatory curve in SHR, and markedly decreased cerebral ischemia as a consequence of middle cerebral artery occlusion with reperfusion. Protection from ischemia is related to arterial remodelling, enhanced compensatory vasodilatation in the peripheral area of ischemia. decreased redn. in cerebral blood flow following the occlusion of a major cerebral blood vessel, and protection from injury in the periphery of the lesion. Our results indicate that pre-treatment with ATI-antagonists such as candesartan could be of benefit in the prevention and treatment of brain ischemia.
- candesartan could be of benefit in the prevention and treatment of brain ischemia.
 Angiotensin II (Ang II) regulates cerebral blood flow by stimulating cerebral vasoconstriction via ATI- receptors. In adult spontaneously hypertensive rats (SNR), the cerebrovascular autoregulatory curve is shifted to the right, in the direction of higher blood pressures, an indication of excessive cerebrovascular vasoconstriction. A restricted capacity to dilate cerebral blood vessels may be responsible for the enhanced vulnerability to cerebrovascular ischemia during hypertension. We found that chronic treatment with the ATI-receptor antagonist, candesartan. (0.5 mg/kg/day for 14 days, via osmotic. . . . tissue) blocked Ang II binding to ATI-receptors in cerebral blood vessels and in brain areas involved in the regulation of cerebrovascular flow, and increased the ratio of lumen-wall area in the middle cerebral artery. Candesartan treatment normalized the lower part of. . . . Angiotensin receptor antagonists (angiotensin II; pre-treatment with candesartan protects from cerebral ischemia)

- ANSWER 22 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1:710805 Document No. 136:353152 Genetic risk factors for cerebral infarction. Tamura. Mitsuru: Ito. Daisuke
 (School of Medicine. Kelo University. Japan). Molecular Medicine (Tokyo. Japan). 38(Rinji Zokango. Seikatsu Shykanbyo). 364-359 (Japanese) 2001.
 CODEN: MOLMEL. ISSN: 0918-6557. Publisher: Nakayama Shoten.
 A review, on the title topic. discussing genetic risk factors in atherosclerosis and thrombotic disorders: atherosclerosis- and hypertension-assocd. factors (e.g. apolipoprotein E. apolipoprotein LP(a). angiotensin-converting enzyme and angiotensin II receptors. No synthase, methylenetetrahydrofolate reductase, paraoxonase. CD antigens. etc): and factors in assocn. with thrombotic disorders (blood-coagulation factors, protothrombin. thrombomodulin: fibrinogen, etc).
- etc):

 Genetic risk factors for cerebral infarction
 Genetic risk factors in atherosclerosis and thrombotic disorders:
 atherosclerosis- and hypertension-assocd. factors (e.g. apolipoprotein E. apolipoprotein LP(a), angiotensin-converting enzyme and angiotensin il receptors. NO synthase.
 methylenetetrahydrofolate reductase, paraoxonase. CD antigens, etc); and factors in assocn. with thrombotic disorders (blood-coagulation factors. protothrombin, thrombomodulin:
 review genetic risk factor cerebral infarction
 Atherosclerosis
- Atherosclerosis
- Thrombosis
- (genetic risk factors for cerebral infarction)
- animal
 - Gene. animal
 RL: ADV (Adverse effect. including toxicity); BSU (Biological study,
 unclassified); BIOL (Biological study)
 (genetic risk factors for cerebral infarction)
- Diagnosis
 (genetic: genetic risk factors for cerebra)
- infarction)
 - Brain, disease (infarction; genetic risk factors for cerebral infarction)

- ANSWER 23 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- Renin-angiotensin system
 (renin-angiotensin system on cerebral perfusion following subarachnoid hemorrhage)
- Meninges (subarachnoid hemorrhage; renin-angiotensin system on cerebral perfusion following subarachnoid hemorrhage)
- (sympathetic; renin-angiotensin system on cerebral perfusion following subarachnoid hemorrhage)

- subarachmotd hemorrhage)
 Anglotensin receptors
 RL: BOC (Biological occurrence): BSU (Biological study, unclassified):
 BIOL (Biological study): OCCU (Occurrence)
 (type ATI: renin-anglotensin system on cerebral perfusion following subarachmotd hemorrhage)
 51-41-2. Noradrenaline 1128-99-7. Anglotensin-II
 RL: BOC (Biological occurrence): BSU (Biological study, unclassified):
 BIOL (Biological study): OCCU (Occurrence)
 (renin-anglotensin system on cerebral perfusion following subarachmotd hemorrhage)
 9015-94-5. Renin, biological studies
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (renin-anglotensin system on cerebral perfusion following subarachmotd hemorrhage)

- L1 ANSHER 23 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2001:695120 Document No. 136:3888 Impact of the renin-angiotensin system on
 cerebral perfusion following subarachnoid hemorrhage
 in the rat. Fassot. Celine: Lambert. Gavin: Elghozi. Jean-Luc: Lambert.
 Elisabeth (INSERN E 0107. Faculte de Medecine. Paris. 75270. Fr.).
 Journal of Physiology (Cambridge, United Kingdom). 535(2). 533-540
 (English) 2001. CODEN: JPHYA7. ISSN: 0022-3751. Publisher: Cambridge
- Ournal of Physiology (Cambridge, United Kingdom). 535(2), 533-540 (English) 2001. CODEN: JPHVA7. ISSN: 0022-3751. Publisher: Cambridge University Press.

 1. This study investigated the effects of blocking the ATI angiotensin receptors with irbesartan, either peripherally or centrally, on systemic blood pressure. Intracranial pressure and cerebral perfusion pressure following exptl. subarachnoid hemorrhage (SAH) in unethane-anasthetized rats. Sympathetic nervous activation was detd. by measuring plasma noradrenaline levels. 2. In untreated animals, SAH induced a sustained increased in intracranial pressure from 2.1.+-.0.3 to 16.--.2 mm Hg (3 h. P < 0.001). Cerebral perfusion pressure was reduced by 20% (P < 0.001). this redn. being maintained for 3 h. Sympathetic activation was evident in the high level of plasma noradrenaline measured 3 h post-SAH (751.+-.104 vs. 405.+-.35 pml-1, P < 0.05). 3. Acute peripheral pretreatment with irbesartan (3 mg kg-1, 1.V.) prevented the rise in plasma noradrenaline and further aggravated the decrease in cerebral perfusion pressure by moducing transient systemic hypotension (blood pressure was 85.+-.6 mmkg at 2 h post-SAH vs. 100.+-.3 mmkg, P < 0.01). 4. Intracisternal pretreatment with irbesartan (0.035 mg) did not prevent the rise in plasma noradrenaline post-SAH but enhanced the rise in intracranial pressure by 75x compared with untreated animals. 5. This study demonstrates that peripheral endogenous angiotensin II inthe brain seems to exert a protective effect by counteracting the elevation in intracranial pressure that occurs following SAH. Endogenous angiotensin in receptors with irbesartan. either peripherally or centrally, on systemic blood pressure. Intracranial pressure that occurs following exptl. SAH. Impact of the renin-angiotensin system on cerebral perfusion following exptl. SAH. Induced. but enhanced the rise in intracranial pressure by 75x compared with intracranial pressure and cerebral perfusion pressure following exptl. SAH. Induced. but enhanced the rise in

- following exptl.. . . renin angiotensin system brain subarachnoid hemorrhage

- ANSMER 24 OF 123 CAPLUS COPYRIGHT 2003 ACS
 01:672361 Document No. 136:214735 Relation between the renin-angiotensin gene system and endothelial NO synthase gene polymorphism and angiocomplications of type 2 diabetes mellitus. Sergeeva. T. V.; Chistyakov, D. A.; Kobalova, Zh. D.; Moiseev, V. S. (Kafedra Vnutrennikh Boleznei, Ross. Univ. Druziby Narodov, Noscow. Russia). Problemy Endokrinologii, 47(4), 18-23 (Russian) 2001. CODEN: PROEAS. ISSN: 0375-9660. Publisher: Izdatel'stvo Meditsina.
 The insertion/deletion (I/D) polymorphism of angiotensin 1-converting enzyme (ACE) gene. T174M (threonine substitution for methionine in position 174 of amino acid sequence) polymorphism of angiotensins of endothelial NO synthase (NOS3) gene were Studied by the polymerase chain reaction (PCR) in patients with type 2 diabetes mellitus and arterial hypertension uncomplicated (control. n = 52) and complicated with cardiovascular diseases (myocardial infarction in diabetics was shown. The absence of significant differences in the distribution of alleles and genotypes of ACT gene in three groups of patients indicates that this gene is hardly involved in the formation of cardiovascular complicated with cardiovascular dispersion of cardiovascular complicate that his gene is hardly involved in the formation of cardiovascular complications in type 2 diabetes. A strong assocn. between Allelo C polymorphism of AZTIR gene and development of myocardial infarction in patients with type 2 diabetes and essential hypertension of the Moscow population was revealed: allele A and genotype AA attenuate the risk of early myocardial infarction in severaled: allele A and genotype 4A/4b and 4A/4a are pronounced risk markers, and allele 4b and genotype 4A/4b arefreship is assocd with a low risk of this complication.

 IT/AM (threonine substitution for methionine in position 174 of amino acid sequence) polymorphism of angiotensiningen (AGT) gene. Allecc polymorphism of angiotensiningen (AGT) gene. Allecc polymorphism of angiotensiningen (AGT) gene. Allecc

 - Brain, disease
 - (cerebrovascular: renin-angiotensin gene system and endothelial nitric oxide synthase gene polymorphism and angiocomplications of NIDDM)

ANSWER 25 OF 123 CAPLUS COPYRIGHT 2003 ACS 31:540627 Oocument No. 135:165387 Diabetic macroangiopathy and genetic polymorphisms in Japanese patients with type 2 diabetes. Muto, Kazuko: budhayata Yasuko: Honda, Masashi; Otami. Toshika: Iwamoto. Yasuhiko (Dep. Med. III. Diabetes Cent., Tokyo Women's Med. Univ. Sch. Hed., Japan). Tokyo Joshi Ika Dajgaku Zasshi, 71(5.6), 319-330 (Japanese) 2001. CODEN: TJIZAF. ISSN: 0040-9022. Publisher: Tokyo Joshi Ika Dajgaku Gakkai. The main cause of mortality in type 2 diabetic patients is macroangiopathy including coronary heart disease (CHD). cerebrovascular disease (CVD), and obstructive atherosclerosis (ASO). Recent genetic studies showed that these vascular disease in non-diabetic patients were largely assocd, with certain genetic polymorphisms. We therefore investigated the relationship between macroangiopathy and the genetic polymorphisms in Japanese patients with type 2 diabetes by a case-control study. A total of 157 patients with type 2 diabetes by a case-control study. A total of 157 patients with type 2 diabetes by a case-control study. A total of 157 patients with type 2 diabetes were divided into 81 with either CHD. CVD or ASO (pos. group) and 76 without all (neg. group). Two groups were matched with age, duration, thalic and lipid metab. Healthy individuals who had no abnormality of glucose and lipid metabs. served as controls. The gene polymorphisms used in this study were as follows: the deletion/insertion allele of angiotensin-converting enzyme (AEE) gene. 1166A/C allele of angiotensin II type I receptor (ATIR) gene. PIAI/PIA2 allele of platelet glycoprotein IIIa receptor (ATIR) gene. PIAI/PIA2 allele of platelet glycoprotein IIIa receptor (BPIIIa) gene. Taglia and Int14G/A allele of cholesteryl ester transfer protein (CETP). 1886ly/Glu allele of platelet glycoprotein IIIa receptor on the way to Hardy-Meinberg equil. The result showed that there was no statistical difference in the polymorphisms between the pos. and neg. groups. It suggests that the developmen

L1 ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS
2001:453059 Document No. 135:46172 Preparation of N-1soxazolyl
biphenylsulfonamides and related compounds as dual angiotensin
II and endothelin receptor antagonists... Murugesan. Natesan:
Tellew. John E.: Macor. John E.: Gu, Zhengxiang (Bristol-Hypers Squibb Co..
USA). PCT Int. Appl. NO 2001044239 A2 20010621. 287 pp. DESIGNATED
STATES: W: AE, AG, AL, AH, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,
CR, CU, CZ, DE, DC, DM, EE, ES, FI, GB, GO, EE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MO, MG,
MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR,
GA, GB, GR, IE, IT, LU, MC, ML, NR, NE, NL, PT, SE, SN, TD, TG, TR,
CENGlish). CODEN: PIXXOZ. APPLICATION: NO 2000-1833730 20001213.
PRICRITY: US 1999-464037 19991215: US 2000-641367 20000111: US 2000-513779
20000225: US 2000-604322 20000626: US 2000-643640 20000822.

GI

Title compds. (I; Rl = specified oxoimidazolyl. pyridoimidazolyl. pyridoimidazolyl.

antagonists. antagonists. . CHO, (halo)alkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO2, etc.: R3 = heteroaryl; with provisos) were prepd. as dual angiotensin II and endothelin receptor

L1 ANSWER 26 OF 123 CAPLUS COPYRIGHT 2003 ACS
2001-467861 Document No. 136:303865 The angiotensin II
receptor antagonist candesartan cilexetil (TCV-116) ameliorates retinal
disorders in rats. Nagisa N.: Shintami, A.: Nakagawa, S. (Pharmaceutical
Research Division. Pharmacology Research Laboratories II. Takeda Chemical
Industries. Osaka. Japan). Diabetologia. 44(7). 883-889 (English) 2001.
COCRD: DBTGAJ. ISSN: 0012-1863. Publisher: Springer-Verlag.

AB The results of the EUCLID trial (EURODIAB Controlled Trial of Lisinopril
in Insulin-dependent Diabetes Rellitus) highlighted the importance of the
renin-angiotensin system in the pathogenesis of diabetic retinopathy.
Candesartan cilexetil (TCV-116), a potent angiotensin II
(AII) receptor antagonist. has beneficial effects on
hypertension as well as on heart. renal, and cerebrovascular
disease. The authors aimed to evaluate the effectiveness of candesartan
cilexetil in ameliorating retinal disorders induced by hyperglycemia.
Methods. The authors compared retinal vascular endothelial growth factor
(VEGF) mRNA expression and the latencies of retinal oscillatory potentials
in TCV-116-treated and control groups of stroke-prone spontaneously
hypertensive rats with streptozocin (ST2)-induced diabetes. Results.
Retinal VEGF mRNA expression was significantly higher and the latencies of
oscillatory potentials were significantly elongated in ST2-treated
spontaneously hypertensive rats compared with a non-treated spontaneously
hypertensive rat group matched for age. These changes were dependent on
hyperglycemia but independent of hypertension. Treatment with TCV-116 is
mg/kg) significantly diminished retinal VEGF mRNA expression and the
latencies of oscillatory potential peaks, but had no effect on plasma
glucose concns. These results suggest that TCV-116 is effective in
preventing the development of diabetic retinopathy already in the early
stages.

TI the angiotensin II receptor antagonist candesartan

stages.

The angiotensin II receptor antagonist candesartan cilexeti (TCV-116) aneliorates retinal disorders in rats

Diabetes Mellitus) highlighted the importance of the renin-angiotensin system in the pathogenesis of diabetic retinopathy. Candesartan cilexetil (TCV-116), a potent angiotensin II (AII) receptor antagonist, has beneficial effects on hypertension as well as on heart, renal, and cerebrovascular disease. The authors aimed to evaluate the effectiveness of candesartan cilexetil in ameliorating retinal disorders induced by hyperglycemia. Methods. The.

Angiotensin receptor antagonists

(angiotensin II: candesartan cilexetil (TCV-116) ameliorates retinal disorders in rats)

ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) antagonists for treatment of hypertension and other diseases (no data). Thus. 4-BrC6H4CH2CH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)[(2-methoxyethoxy)methyl]amino]sulfonyl]bhenyl]boronic acid. Angiotensin receptors

ostate gland (benign hyperplasia, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

Sexual behavior (disorder, treatment of female; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

Heart, disease

Kindey. disease
(failure, treatment: prepn. of N-isoxazolyl biphenylsulfonamides and
related compds. as dual angiotensin II and
endothelin receptor antagonists)

endothelin receptor antagonists)
Sexual behavior
(impotence, treatment: prepn. of N-isoxazolyl biphenylsulfonamides and
related compds. as dual angiotensin II and
endothelin receptor antagonists)
Antiarteriosclerotics

Antiasthmatics

Antiasthmatics
Antihypertensives
Antimipraine agents
Antimigraine agents
Antimigraine agents
Antimigraine agents
Antimigraine agents
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor
antagonists)
Growth inhibitors, animal
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use):
BIOL (Biological study): PREP (Preparation): USES (Uses)
(prepn. of N-isoxazolyl) biphenylsylfonamides and related compds. as
dual angiotensin II and endothelin receptor
antagonists)
Artery, disease

IT Artery, disease
(restenosis, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and
related compds, as dual angiotensin II and
endothelin receptor antagonists)

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ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
                                                    (subarachnoid hemorrhage, treatment; prepn. of
(subarachnoid hemorrhage, treatment; prepn. of
N-isoxazolyl biphenylsulfonamides and related compds. as dual
angiotensim II and endothelin receptor antagonists)
                                                          THENION (treatment: preprior of N-isoxazoly) biphenylsulfonamides and related compds. as dual angiotensin II and endothelin
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L1 ANSKER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

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254742-69-3P 254742-69-0P 254742-71-7P 254742-72-8P 254742-73-9P
254742-80-8P 254742-79-6P 254742-71-7P 254742-72-8P 254742-73-9P
254742-80-8P 254742-99-9P 254742-81-9P 254742-78-4P 254742-99-9P 254743-08-8P 254743-08-8P 254743-08-9P 254743-10-7P 254743-19-6P 254743-27-6P 254743-16-3P 254743-13-5P 254743-25-9P 254743-28-3P 254743-38-3P 254743-38
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254743-34-5P 254743-40-3P 254743-36-7P 254743-37-8P 254743-38-9P
254743-44-7P 254743-46-9P 254743-46-9P 254743-47-9P 254743-46-9P 254743-46-9P 254743-46-9P 254743-46-9P 254743-46-9P 254743-46-9P 254743-47-9P 254743-56-1P 254743-65-2P 254743-67-8P 254743-67-8P 254743-70-9P 254743-71-1P 254743-72-1P 254743-73-2P 254743-79-8P 254743-80-1P 254743-81-2P 254743-91-2P 254743-91-2P 254744-01-2P 254744-0
                                                                     254/44-13-3P

RL: BAC (Biological activity or effector. except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIO. (Biological study); PREP (Preparation); USES (Uses) (prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as dual angiotensin 11 and endothelin receptor antaonnists)
                                                                     antagonists)
56-12-2. 4-Aminobutyric acid. reactions 75-03-6. Iodoethane
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                                                                        56-12-2. 4-Aminobutyric acid. reactions 75-03-6. Iodoethane 78-09-1. 
Tetraethyl orthocarbonate 79-03-8. Propionyl chloride 79-44-7. 
Dimethylcarbamyl chloride 95-89-6. 2-Chloro-3.6-dimethylpyrazine 
109-81-9. N-Methylethylenediamine 124-40-3. Dimethylamine. reactions 
127-08-2. Potassium acetate 541-41-3. Ethyl chloroformate 543-27-1. 
Isobutyl chloroformate 589-15-1. 4-bromobenzyl bromide 627-03-2. 
Ethoxyacetic acid 638-29-9. Valeryl chloride 676-58-4. Methylmagnesium
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L1 ANSNER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
254739-84-9P 254739-85-0P 254739-86-1P 254739-87-2P 254739-89-3P
254739-99-4P 254739-99-7P 254739-91-8P 254739-92-9P 254739-93-0P
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R1: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): TMC (Therapeutic use):
BIOL (Biological study): PREP (Preparation): USES (Uses)
(prepn. of N-isoxazoly) biphenylsul fonamides and related compds. as dual angiotensin II and endothelin receptor
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L1 ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) chloride 680-15-9 767-00-0. 4-Cyanophenol 865-33-8. Potassium methoxide 873-75-6. 4-Bromobenzyl alcohol 1117-97-1. N. Methoxy-N-methylamine 112-91-4. 4-Bromobenzaldehyde 1450-75-5 1530-32-1. Ethyltripherylphosphonium bromide 1609-86-5. tert-Butyl isocyanate 2835-98-5 2905-25-1, 2-Bromobenzensulfonyl chloride 3999-07-7. 4-Bromobenzylamine 4858-86-9. 2.3-Dichloropyrazine 5326-34-1. 4-Bromo-3-introtofluene 6282-47-3. Propyltripherylphosphonium bromide 6482-24-2. 1-Bromo-2-methoxyethane 13734-41-3 14508-49-7. 2-Chloropyrazine 14678-02-5. 5-Amino-3-methylisoxazole 2009-22-9. Acatamide oxime 22844-29-3. Isobutyltripherylphosphonium bromide 28466-21-9. 4-Amino-1.3.5-trimethylpyrazole 2906-02-8 33670-32-5. Methoxymethyltripherylphosphonium bromide 3-Bromo-4-methoxybenzaldehyde 40155-28-0. 2-Chloro-3-methoxypyrazine 41963-20-6. 4-Bromo-3-methylbenzonitrile 53595-51-43. Methyl 2-chloro-3-nitrobenzoate 53596-60-4 60421-23-0 74410-26-7 76513-69-4. 2-Cirimethylsilylbethoxymethyl chloride 78775-11-8 87199-17-5. 4-Formylpherylboronic acid 89464-87-9. 2-Amino-3-methoxys-methylperylboronic acid 89464-87-9. 2-Amino-3-methoxys-methylperylboronic acid 89464-87-9. 2-Amino-3-methoxys-methylperylboronic acid 89464-87-9. 2-Amino-3-methoxys-methylperylboronic acid 89464-87-9-1 8-1810-29-9 4-4-Diffuoroperatanoic acid 133059-43-5 133240-66-9 138402-05-8 146547-19-7. Methyl 4-bromo-3-methylbenzoate 150691-04-6 151257-01-1 150393-15-7 160313-50-8 152647-41-8 167985-344- 176961-13-0 195436-86-3 254746-77-5 254746-78-6 254746-79-7 254746-80-0 254746-80-0
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RL: RCT (Reactant): RACT (Reactant or reagent)
(prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor

(prepn. of N-1soxazoly) biphenylsulforamides and related compds. as dual angiotens II and endothelin receptor antagonists)

14847-51-9P 79047-47-5P 89003-95-2P 123652-98-2P 142031-67-2P 160313-46-4P 176961-30-1P 189762-06-9P 189762-08-1P 190197-86-5P 254744-11-3P 254744-11-3P 254744-18-9P 254744-19-9P 254744-16-5P 254744-21-3P 254744-17-7P 254744-18-8P 254744-19-9P 254744-26-3P 254744-27-3P 254744-28-1P 254744-39-4P 254744-31-5P 254744-32-6P 254744-31-5P 254745-31-5P 2

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         254746-30-0P
254746-35-5P
                                                                                                                                                                                                                                                                                                                                                        254746-43-5P
254746-48-0P
254746-53-7P
           254746-40-2P
         254746-40-2P 254746-40-8P 254746-46-8P 254746-50-4P 254746-51-5P 254746-60-6P 254746-61-7P 254746-60-6P 254746-67-8P 254746-71-9P 25474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         254746-49-1P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         254746-54-8P
254746-59-3P
                                                                                                                                                                                                                                                                                                                                                      254746-58-2P
254746-63-9P
254746-68-4P
254746-73-1P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         254746-64-0P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         254746-69-5P
254746-74-2P
           ZS4746-75-3P Z54746-76-4P Z54746-82-2P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation): RACT
(Reactant or reagent)
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor
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ANSWER 28 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANOMER 28 OF 123 CAPILOS COFFICIAIN 2000 NOS Renin-angiotensin system (renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following expti.

subarachnoid hemorrhage)

suparacrnoru memorrnage)
Vasopressin receptors
RI: ADV (Adverse effect, including toxicity); BPR (Biological process);
BSU (Biological study, unclassified); BIOL (Biological study); PROC

rocess)
(renin-angiotensin and vasopressin systems in acute and chronic
alterations in blood pressure variability following exptl. subarachnoid hemorrhage)

Meninges

nninges (subarachnoid hemorrhage: renin-angiotensin and (subarachnoid hemorrhage: renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following exptl. subarachnoid hemorrhage

11000-17-2. Vasopressin 11128-99-7. angiotensin II
RL: ADV (Adverse effect. including toxicity): BAC (Biological activity or effector, except adverse): BSU (Biological study. unclassified): BIOL (Biological study)

(renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following exptl. subarachnoid hemorrhage)

L1 ANSWER 28 OF 123 CAPLUS COPYRIGHT 2003 ACS
2001:207388 Document No. 135:75027 Acute and chronic alterations in blood pressure variability following experimental subarachnoid haemorrhage. Fassot. C.: Lambert. E.: Lambert. G.: Friberg. P.: Elghozt. J.-L. (INSERN EDIO7. Biomecanique et Pharmacologie de la Paroi Arterielle. Paris. 75670. Fr.). Regulatory Peptides. 99(1), 31-39 (English) 2001. CODEN: REPPDY. ISSN: 0167-0115. Publisher: Elsevier Science Ireland Ltd..

AB This study examd. the role of the renin-angiotensin and vasopressin systems on systolic blood pressure (SBP) variability following subarachnoid hemorrhage (SAH) in conscious rats.

Animals received no treatment. the angiotensin 11 ATI receptor antagonist. Iosartan. or the vascular vasopressin receptor antagonist. AVPX. SAH resulted in a transient sympathetic activation as estd. from the increase in the mid-frequency oscillations of SBP (3.2 mm Hg2. 3 h after the injury vs. 1.3 mm Hg2 in control conditions). On the second and fourth day following SAH. a marked elevation in the low-frequency component of SBP was obsd. (7.1 mm Hg2 on day 2 vs. 2.6 mm Hg2 in control conditions). Pre-treatment with losartan prevented the acute rise in the mid-frequency oscillations in SBP and partially reduced the low-frequency component obd. at 2 and 4 days. Administration of AVPX on the second and fourth day following SAH normalized the elevated low-frequency oscillations in SBP. This study indicates that the modifications in SBP variability obsd. in the early and delayed stage after subarachnoid hemorrhage involve angiotensin II. Vasopressin seems to be implicated in the delayed development of low-frequency fluctuations of SBP.

This study examd. the role of the renin-angiotensin and vasopressin systems on systolic blood pressure (SBP) variability following subarachnoid hemorrhage involve angiotensin II. All receptor antagonist. Nosartan. or the vascular vasopressin receptor antagonist. Nosartan. or the vascular vasopressin receptor antagonist. Nosartan. or the vasc

angiotensin receptors
RL: ADV (Adverse effect, including toxicity); BPR (Biological process);
BSU (Biological study, unclassified); BIOL (Biological study); PROC

(ATI: renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following exptl. subarachnoid hemorrhage)

IT Blood pressure

ANSWER 29 OF 123 CAPLUS COPYRIGHT 2003 ACS

11:136306 Document No. 135:90868 Renin-angiotensin system gene
polymorphisms. blood pressure. dyslipidemia. and diabetes in Hong Kong
Chinese: A significant association of the ACE insertion/deletion
polymorphism with type 2 diabetes. Thomas. G. Neil: Tomlinson. Brian;
Chan. Juliana C. N.: Sanderson. John E.: Cockram. Clive S.: Critchley.
Julian A. J. H. (Division of Clinical Pharmacology. Department of Medicine
and Therapeutics. The Prince of Wales Hospital. The Chinese University of
Hong Kong. Shatin. Peop. Rep. China). Diabetes Care. 24(2). 356-361
(English) 2001. CODEN: DICAD2. ISSN: 0149-5992. Publisher: American
Diabetes Association. Inc..
In Chinese populations. hypertension is common and is a major risk factor
for cerebrovascular and coronary heart disease. particularly
when associ. with diabetes. The clustering of these disorders and
dyslipidemia and obesity is termed the metabolic syndrome and is
increasing in prevalence in the populations of modernizing Asian nations.
The renin-angiotensin system (RAS) helps maintain blood pressure and salt
homeostasis and may play a role in the pathogenesis of aspects of the
metabolic syndrome. We investigated three RAS gene polymorphisms-the ACE
insertion/deletion (1/0), angiotensinogen (AGT) M235T, and
angiotensin II type I receptor (ATIR) Al166C
polymorphisms-for a possible role in modulating these disorders in 853
Chinese subjects with varying components of the metabolic syndrome. The
three gene polymorphisms of this cross-sectional study were detected using
polymerase chain reaction-based protocols. The genotype frequencies were
compared between the controls (n = 119) and both overlapping and
nonoverlapping groups of patients with type 2 diabetes. hypertension. and
dyslipidemia using chi2 Lets. Differences in levels of the biochem.
parameters between the genotypes were detd. using anal. of variance. No
significant relationship was identified between these polymorphism
was not assocd. with diaps as identified between th

- L1 ANSWER 30 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 (antagonists: preventives for recurrence of cerebrovascular
 failure contg. benzimidazoles as angiotensin II
- antagonists)

 114798-26-4, Losartan 133040-01-4. Eprosartan 137862-53-4. Valsartan 138402-11-6. Irbesartan 139481-59-7. Candesartan 144689-63-4. Olmesartan 144701-48-4. Telmisartan 145040-37-5. Candesartan cilexetil 145733-36-4. Tasosartan 147403-03-0
 RL: THU (Therapeutic uses): BIOL (Biological study): USES (Uses) (preventives for recurrence of cerebrovascular failure contg. benzimidazoles as angiotensin II antagonists)

- L1 AKSMER 30 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2001:63850 Document No. 134:120961 Preventives for recurrence of cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and inhibiting progress thereof. Ojima. Mami; Kitayoshi. Takahito: Miyamoto. Masaomi (Takeda Chemical Industries. Ltd.. Japan). PCT Int. Appl. No. 2001005428 A1 20010125; 43 pp. DESIGNATED STATES: N. Ra. Ag. Al., AM. AU. AZ, BA. BB. BB. BB. BB. BB. BZ. CA. CN. CR. CU. CZ. OM. DZ. EE. GD. GE. HR. HU. ID. IL. IN. IS. JP. KG. KR. KZ. LC. LK. LR. LT. LV. NA, MD. MG. MK. NMI. NK. MZ. NN. NZ. PL. RO. RU. SG. SI. SK. TJ. TM. TR. TT. UA, US. UZ. VW. YU. ZA. AM. AZ. BY. KG. KZ. MD. RU. TJ. TM. RW. AT. BE. BF. BJ. CF. CG. CH. CI. CM. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NE. NL. PT. SE. SN. TD. TG. (Japanese). COODEN: PIXXDZ. APPLICATION: WO 2000-JPA830 20000179. PRIGNITY: JP 1999-20577 19990271.

 AB Disclosed are benzmidazole derivs. as preventives for the recurrence of cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and inhibiting the progress thereof which contain compds. having an antagonism to angiotensin II. prodrugs thereof or salts of the same. For example. a capsule contg. candesartan cilexetil 30. lactose 90. microcryst. cellulose 70. and magnesium stearate 10 mg can be formulated.

 TI Preventives for recurrence of cerebrovascular failure and annibiting progress thereof

 B Disclosed are benzmidazole derivs. as preventives for the recurrence of cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and agents for for careflorevascular failure and sents for ameliorating troubles following cerebrovascular failure and agents for accomplicating troubles following cerebrovascular failure and agents for progress thereof which contain compds. having an antagonism to angiotensin II. prodrugs thereof or salts of the same. For example, a capsu
- angiotensin antagonist benzmidazole deriv cerebrovascular failure; capsule candesartan cilexetil cerebrovascular failure prevention
- Drug delivery systems
 (capsules: preventives for recurrence of cerebrovascular
 failure contg. benzimidazoles as angiotensin II
 - antagonists)
- IT Brain, disease
 (cerebrovascular: preventives for recurrence of cerebrovascular failure contg. benzimidazoles as angiotensin II antagonists)
- angiotensin II antagonists/
 II Drug delivery systems
 (tablets; preventives for recurrence of cerebrowascular
 failure contg. benzimidazoles as angiotensin II
 antagonists)
 II 11128-99-7. Angiotensin II
 RL: BSU (Biological study, unclassified): BIOL (Biological study)

- L1 ANSWER 31 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2000:864914 Document No. 135:44517 Relationship between angiotensin
 II type I receptor gene and cerebral infarction
 in Chinese. Zhang. Chen: Wang. Huiyuan: Luo. Bing (Department of
 Neurology. The Affiliated Hospital of Quingdao University Medical College.
 Tsingtao. 266003. Peop. Rep. China). Qingdao Daxue Yixueyuan Xuebao.
 36(3). 164-166 (Chinese) 2000. CODEN: ODYXAE. Publisher: Qingdao Daxue
 Yixueyuan Xuebao Bianjibu.

 AB Objective: To ascertain the relationship between angiotensin
 II type I receptor (AIIR) gene polymorphism and cerebral
 infarction (CI) in Chinese. Methods 196 cases were analyzed by
 polymerase chain reaction.digestion of restriction enzyme and
 electrophesis for the 1166C variation at the 3'-untranslated region of
 ATIR gene. Results: The genotype frequencies of 1166A/1166A. 1166A/1166C.
 1166C/1166C were 0.759 5 (6079). 0.215 2 (17779). 0.025 3 (2779) in the
 control: 0.532 3 (33/62). 0.305 5(19/62). 0.161 3 (10/62) in the CI and
 0.545 5(30/55). 0.400 0 (22/55). 0.054 5 (35/55) in the HTM group resp. The
 allelic gene frequency of 1166C was 0.132 9 in the control group. 0.314 5
 in the CI group and 0.254 5 in the HTM. There was significant increase in
 1166C genotype frequency between CI and control (.CHI.2 = 11.392. P <
 0.01). HTM and control (.CHI.2 = 6.793 3, P < 0.05); and allelic frequency
 of 1166C between CI and control (.CHI.2 = 13.679 7, P < 0.01). HTM and
 control (.CHI.2 = 6.421 8, P < 0.05). In female.the allelic gene
 frequency of 1166C was 0.102 6 in the control 0.0333 3 in the CI and 0.333
 3 in the HTM group. There was significant increase in allelic frequency
 of 1166C between female CI and control (.CHI.2 = 11.543 3, P < 0.01). HTM
 and control (.CHI.2 = 11.168 8, P < 0.05). Conclusion: ATIR polymorphism
 contributes to the development of CI, esp. in the female.

 Relationship between angiotensin II type I receptor
 gene and cerebral infarction in Chinese.

 Budictive: To ascertain the relationship between angiotensin
 II type I receptor (ATIR) ge
- angiotensin at receptors
 infarction
 Angiotensin receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (ATI: relationship between angiotensin II type I
 receptor gene and cerebral infarction in Chinese
 - humans)
 Gene, animal
 RL: BOC (Biological occurrence): BSU (Biological study, unclassified): PRP
 (Properties): BIOL (Biological study): OCCU (Occurrence)
 (ATIR: relationship between angiotenshi II type l
 receptor gene and cerebral infarction in Chinese
 - IT Brain, disease
 (infarction: relationship between angiotensin II
 type I receptor gene and cerebral infarction in Chinese humans)

ANSWER 31 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) Genetic polymorphism Genotypes (relationship between angiotensin II type I receptor gene and cerebral infarction in Chinese 11128-99-7, angiotensin II RL: BSU (Biological study, unclassified): BIOL (Biological study) (relationship between anglotensin II type I receptor gene and cerebral infarction in Chinese

ANSWER 32 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
failure. Currently. 2 classes of drugs work by blocking the
RAAS, albeit by differing mechanisms: anglotensin-converting enzyme (ACE)
inhibitors and anglotensin II anglotensin type I
receptor blockers (ARBs). The goal of this study was to assess the
comparative efficacy and tolerability of 10 mm Hg or sitting
systolic blood pressure (SBP) >200 mm Hg, angina pectoris, myocardial
infarction, cardiac procedure, stroke, or transient
ischemic attack within 6 mo of randomization, as well as
other preexisting or present severe medical or psychol, conditions.
Patients were randomly.

L1 ANSHER 32 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:858350 Document No. 135:40690 A multicenter. randomized. double-blind study of the antihypertensive efficacy and tolerability of irbesartan in patients aged gloreq.65 years with mild to moderate hypertension. Lacourciere. Yves (Hypertension Unit. Centre Hospitalier Universitaire Laval, Quebec City, Oc. Can.). Clinical Therapeutics. 22(10). 1213-1224 (English) 2000. CODEN: CLTHOG. ISSN: 0149-2918. Publisher: Excerpta

Blockade of the renin-angiotensin-aldosterone system (RAAS) is the

(English) 2000. CODEN: CLTHDG. ISSN: 0149-2918. Publisher: Excerpta Medica. Inc..
Blockade of the renin-angiotensin-aldosterone system (RAAS) is the preferred mechanism of action for controlling hypertension in select groups of patients. Including those with diabetic nephropathy and heart failure. Currently. 2 classes of drugs work by blocking the RAAS. albeit by differing mechanisms: angiotensin-converting enzyme (ACE) inhibitors and angiotensin II angiotensin type 1 receptor blockers (ARBS). The goal of this study was to assess the comparative efficacy and tolerability of the ARB irbesartan and the ACE inhibitor enalapril in patients gtoreq.65 yr of age with mild to moderate hypertension (sitting diastolic blood pressure (DBP). 95 to 110 mm Hg). Elderly (sptoreq.65 yr of age) patients were recruited from 26 Canadian study centers for a randomized. double-blind. 8-wk clin. trial. Exclusion criteria included sitting DBP-2110 mm Hg or sitting systolic blood pressure (SBP) >200 mm Hg. angina pectoris, myocardial infarction. cardiac procedure. stroke, or transfent ischemic attack within 6 mo of randomization. as well as other preexisting or present severe medical or psychol. conditions. Patients were randomly assigned to receive a single daily dose of irbesartan 150 mg (n = 70) or enalapril 10 mg (n = 71) with treatment doses of study drugs doubled at week 4 for sitting DBP, storeq.90 mm Hg. Redns. from baseline blood pressure measurements at trough (24 +-. 3 h after the last dose of medication) were assessed for sitting DBP and sitting SBP. Comparative tolerability to study drugs was also assessed. The intent-to-treat anal. demonstrated similar redns. at week 8 in both DBP and SBP for both groups. For the primary efficacy anal. of sitting DBP, there was a mean redn. from baseline in sitting SBP was 10.1 mm Hg and 11.6 mm Hg for the irbesartan and enalapril groups. Fep. (P = 0.93). The mean redn. from baseline in sitting SBP was 10.1 mm Hg and 11.6 mm Hg for the irbesartan and enalapril groups. Fep. (P = 0.93). Th

L1 ANSWER 33 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:746952 Document No. 134:51217 Anglotensin II ATI
blockade normalizes cerebrovascular autoregulation and reduces
cerebral ischemia in spontaneously hypertensive rats. Mishimura, Yasuaki:
1to. Takeshi: Saavedra. Juan M. (Section on Pharmacology, National
Institute of Mental Health, Bethesda. No. 2092. USA). Stroke. 31(10).
2478-2486 (English) 2000. CODEN: SUCCA7. ISSN: 0039-2499. Publisher:
Lippincott Williams & Wilkins.

Background and Purpose- Anglotensin II. through
stimulation of ATI receptors, not only controls blood pressure but also
modulates cerebrovascular flow. We sought to det. whether
selective ATI antagonists could be therapeutically advantageous in brain
ischemia during chronic hypertension. Methods- We pretreated
spontaneously hypertensive rats (SRR) and normotensive Wistar-Kyoto
controls with the ATI antagonist candesartan (CV-11974). 0.5 mg/kg per
day. for 3 to 14 days. via s.c. implanted osmotic minipumps. We analyzed
cerebral blood flow by laser-Doppler flowmetry, cerebral stroke in SRR
after occlusion of the middle cerebral artery with reperfusion, and brain
ATI receptors by quant, autoradiog, Results- Candesartan treatment
normalized blood pressure and the shift toward higher blood pressures at
both the upper and lower limits of cerebrovascular
autoregulation in SRR. Candesartan pretreatment of SRR for 14 days
partially prevented the decrease in blood flow in the marginal zone of
ischemia and significantly reduced the vol. of total and cortical infarcts
after either 1 or 2 h of middle cerebral artery occlusion with
reperfusion, relative to untreated SRR, resp. This treatment also
significantly reduced brain edema after 2 h of middle cerebral artery.
Conclusions- Pretreatment with an ATI antagonist protected hypertensive
rats from brain ischemia by normalizing the cerebral blood flow response,
probably through ATI receptors not only controls blood pressure but also
modulates cerebrovascular flow. We sought to det. whether
selective ATI antagon

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ANSWER 33 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(AT1: anglotensin II ATI blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
  Anti-ischemic agents
Hypertension
            percension
(angiotensin II ATI blockade normalizes
cerebrowascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
             ccuention
(cerebral: angiotensin II ATI blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
             (ischemia: angiotensin II ATL blockade normalizes cerebrovascular autoregulation and reduces cerebral ischemia in spontaneously hypertensive rats)
 Brain, disease
  Artery (middle cerebral: candesartan effect on cerebral angiotensin II ATI receptors and cerebrovascular autoregulation in spontaneously hypertensive rats)
              (nucleus tractus solitarii: candesartan effect on cerebral angiotensin II ATI receptors and cerebrovascular autoregulation in spontaneously hypertensive
 Brain
(postrema area; candesartan effect on cerebral angiotensin
II ATI receptors and cerebrovascular autoregulation
in spontaneously hypertensive rats)
11128-99-7. Angiotensin II
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): BIO. (Biological study)
(angiotensin II ATI blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
139481-59-7. CV-11974
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES
(USes)
(angiotensin II ATI blockade normalizes
                 ses)
(angiotensin II ATI blockade normalizes
cerebrowascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
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L1 ANSWER 34 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

Page 16

11 ANSWER 34 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:743385 Document No. 134:305109 Reducing cardiovascular morbidity and mortality in the elderly. Trenkwalder. Peter (Department of Medicine. Starnberg Hospital). University of Munich. Starnberg. Germany). Blood Pressure. Supplement (1), 40-43 (English) 2000. CODEN: BPSUEY. ISSN: 0803-8023. Publisher: Scandinavian University Press.

AB Candesartan cilexetil is highly effective at lowering blood pressure, while maintaining placebo-like tolerability, in a wide range of patient groups. Although the benefit of lowering blood pressure in elderly patients with moderate hypertension has been demonstrated in several large-scale clin. trials. elderly patients with hypertension have rarely been studied. The high incidence of cardiovascular and cerebrovascular mortality and morbidity. Including dementa, in the elderly means that control of blood pressure is particularly important in this patient group. A major new international clin. trial - SCOPE (Study on Cognition and Prognosis in the Elderly) - has therefore been initiated. This is a prospective, randomized, double-blind, parallel comparison of the effects of candesartan cilexetil, 8 or 16 mg once daily, and placebo in about 5000 patients who will be followed for a mean of 2.5 yr. SCOPE is the first study designed to assess the effect of antihypertensive therapy in elderly patients (70-99 yr of age) with mild hypertension (sitting systolic blood pressure of 160-179 mmly and/or sitting diastolic blood pressure of 90-99 yr of age) with mild hypertensive therapy in elderly patients (70-99 yr of age) with mild hypertensive therapy in elderly patients (70-99 yr of age) with mild hypertensive therapy in elderly patients (70-99 yr of age) with mild hypertensive therapy elderly patients (70-99 yr of age) with mild hypertensive therapy elderly patients (70-99 yr of age) with mild hypertensive therapy elderly patients (70-99 yr of age) with mild inportant secondary objective is to det. the effect of such treating mildly h

L1 ANSMER 35 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:692024 Document No. 134:172549 Angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation. Adzhienko. L. M. (Inst. Pharacol. . RMS. Moscow. 125315. Russia). Eksperimental'naya i Klinicheskaya Farmakologiya. 63(4). 74-79 (Russian) 2000. CODEN: EKFA9. ISSN: 0869-2092. Publisher: Izdatel'stwo Folium. AA review with 56 refs outlining the significant role that the renin-angiotensin system (RAS) plays in the regulation of cerebral circulation. The pharmacol. correction of cerebrovascular disorders by using RAS antagonists is discussed.
L1 Angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation system antagonist affect the cerebral circulation correction of cerebral circulation. The pharmacol. correction of cerebrovascular disorders by using RAS antagonists is discussed. is discussed.
Blood vessel
Remin-angiotensin system
(angiotensin II and remin-angiotensin system
antagonist affect the cerebral circulation) is discussed. antagonist affect the General Circulation (creubral: angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation) 11128-99-7. Angiotensin II RL: SSU (Biological study, unclassified): PRP (Properties); BIOL

(Biological study)
(angiotensin II and renin-angiotensin system

antagonist affect the cerebral circulation)

- ANSMER 36 OF 123 CAPLUS COPYRIGHT 2003 ACS
 00:670765 Document No. 134:172536 Rationale for angiotensin
 11 receptor blockers in patients with low-renin hypertension.
 Jamerson, Kenneth A. (University of Michigan Medical Center, Ann Arbor, MI. 48109-0357, USA). American Journal of Kidney Diseases. 36(3, Suppl.)
 1). S24-S30 (English) 2000. CODEN: AJKODP. ISSN: 0272-6386. Publisher:
 W. B. Saunders Co..
 A review with 32 refs. African Americans outrank other ethnic groups in the United States in prevalence, early onset, and severity of hypertension. Furthermore. African Americans suffer the highest rates of mortality from cardiovascular, cerebrovascular, and end-stage renal disease. The recently concluded Heart Outcomes Prevention
 Evaluation (HOPE) study reports that the angiotensin-converting enzyme (ACE) inhibitor ramipril significantly reduced morbidity and mortality in a broad range of patients at high risk for cardiovascular events. These results strengthen the case for increasing the use of ACE inhibitor therapy. In accord with the Joint National Committee on Prevention, Detection. Evaluation, and Treatment of High Blood Pressure (JNC VI) guidelines, antihypertensive monotherapy for African Americans is based on the known ability of diuretics and calcium channel blockers to produce greater redns. In blood pressure in this population than those attainable with beta blockers and ACE inhibitors. The national guidelines also suggest ACE inhibitors for all hypertensive patients with left ventricular dysfunction or nephropathy, which implies that African Americans must cross a clin. threshold to become candidates for these agents. The rationale for delaying ACE inhibitor therapy is due in part to a perceived unique pathobiol. In hypertensive African Americans are not hypovolenic. Furthermore, dietary sodium restriction and diuretic therapy raise PRA and improve the response to ACE inhibitors. The overall aim of this article is to explain the rationale for expanded use of drugs that block the RAS in African Americans a

- ST
- Angiotensin receptor antagonists
 (angiotensin II: rationale for angiotensin
 II receptor blockers in patients with low-renin hypertension)
- Antihypertensives
- L1 ANSWER 37 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2000:506952 Document No. 124:28160 The relationship between
 angiotensin II type 1 receptor gene polymorphism and
 Chinese essential hypertension. Zhong, Ya; Ha. Daiwen (Department of
 Gerontology, Second Affiliated Hospital, Hubei Medical University, 430071,
 Peop. Rep. China). Hubei Yike Daxue Xuebao, 21(2), 124-127 (Chinese)
 2000. CODEN: HYDXFU. ISSN: 1008-0724. Publisher: Hubei Yike Daxue
 Xuebao Biamiibu.
- Peop. Rep. China). Hubei Yike Daxue Xuebao. 21(2). 124-127 (Chinese) 2000. COOEN: HYDRFU. ISSN: 1008-0724. Publisher: Hubei Yike Daxue Xuebao Bianjibu. Objective: To identify the polymorphism of angiotensin II types 1 receptor (ATIR) gene in Chinese essential hyper-tension. Methods: This study included 70 hypertensive (involved 34 hypertension. Methods: ATIR genotype was analyzed by polymerase chain reaction. digestion of restriction enzyme and electrophoresis. Results: The frequencies of C allele among the essential hyper-tension group (12.9%) were higher than those among the control group (3.6%, P-0.005). The frequencies of C allele were no difference between hypertensives complicated with coronary artery disease and hypertensives without cardiovascular or cerebrovascular diseases. Conclusion: The ATIR gene All66/C polymorphism is probably an important hereditary factor in Chinese essential hypertension. The relationship between angiotensin II type 1 receptor gene polymorphism and Chinese essential hypertension Objective: To identify the polymorphism of angiotensin II types 1 receptor (ATIR) gene in Chinese essential hypertensive (involved 34 hypertensives complicated with. The frequencies of C allele were no difference between hypertensives complicated with coronary artery disease and hypertensives without cardiovascular or cerebrovascular diseases. Conclusion: The ATIR gene All66/C polymorphism is probably an important hereditary factor in Chinese essential hypertension. angiotensin II receptor gene polymorphism essential hypertension.

- hypertension
 - RI: BDC (Biological occurrence): BPR (Biological process): BSU (Biological study. unclassified): BIOL (Biological study): OCCU (Occurrence): PROC (Process)
- (Process)
 (ATIR (angiotensin II type 1 receptor);
 relationship between angiotensin II type 1 receptor
 gene polymorphism and Chinese human essential hypertension)
 Genetic polymorphism
 (ATIR gene Al166/C polymorphism: relationship between
 angiotensin II type 1 receptor gene polymorphism and
 Chinese human essential hypertension)
 Angiotensin receptors
 put RELIGENIONICAL Study, unclassified); BIOL (Biological Study
- Angiotemsin receptors
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (ATI: relationship between angiotensin II type 1
 receptor gene polymorphism and Chinese human essential hypertension)
 - (essential: relationship between angiotensin II type 1 receptor gene polymorphism and Chinese human essential hypertension)

- ANSWER 36 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) Hypertension
 (rationale for angiotensin II receptor blockers in
 patients with low-renin hypertension)
 9015-94-5. Renin, biological studies
 RI: 80C (Biological occurrence): BSU (Biological study, unclassified):
 BIOC (Biological study): OCCU (Occurrence)
 (rationale for angiotensin II receptor blockers in
 patients with low-renin hypertension)

- ANSWER 37 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- Genotypes

(relationship between angiotensim II type 1 receptor gene polymorphism and Chinese human essential hypertension)

- ANSWER 38 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1:390959 Document No. 133:12837 Clinical pharmacokinetics of
 angiotensin II (ATI) receptor blockers in hypertension.
 Israili, Z. H. (Emory University School of Medicine, Atlanta, GA. 30303,
 USA). Journal of Human Hypertension. 14(Suppl. 1), S73-S86 (English)
 2000. CODEN: JHHYEN. ISSN: 0950-9240. Publisher: Nature Publishing
- ISA). Journal of Human Hypertension, 14(Suppl. 1), 573-586 (English) 2000. CODEN: JHHFN. ISSN: 0950-9240. Publisher: Nature Publishing Group.
 A review with 174 refs. Angiotensin II receptor blockers (ARBS) represent a new class of effective and well tolerated orally active antihypertensive agents. Recent clin. trials have shown the added benefits of ARBs in hypertensive patients (redn. in left ventricular hypertrophy, improvement in diastolic function, decrease in ventricular arrhythmias, redn. in microalbuminuria, and improvement in renal function), and cardioprotective effect in patients with heart failure. Several large long-term studies are in progress to assess the beneficial effects of ARBs on cardiac hypertrophy, renal function, and cardiovascular morbidity and mortality in hypertensive patients with or without diabetes mellitus, and the value of these drugs in patients with heart disease and diabetic nephropathy. The ARBs specifically block the interaction of angiotensin II at the AT, receptor, thereby relaxing smooth muscle, increasing salt and water excretion, reducing plasma vol., and decreasing cellular hypertrophy. These agents exert their blood pressure-lowering effect mainly by reducing peripheral vascular resistance usually without a rise in heart rate. Nost of the com. available ARBs control blood pressure control, without any evidence of tachyphylaxis, has been demonstrated after long-term administration (3 yr) of some of the ARBs. The efficacy of ARBs is similar to that of thiazide diuretics, beta-blockers, angiotensin-converting enzyme inhibitors or calcium channel blockers in patients with similar degree of hypertension. Higher daily doses, dietary salt restriction, and concomitant diuretic or ACE inhibitor administration amplify the antihypertensive effect of ARBs. The ARBs have a low incidence of adverse effects (neadache, upper respiratory infection, back pain, muscle cramps, fatigue and dizziness), even in the elderly patients. After the approval of losartan, five other ARBs (candesarta
- ANSWER 38 OF 123 CAPLUS COPYRIGHT 2003 ACS
- Angiotensin II: clin. pharmacokinetics of
 - ingiotensin II (AT1) receptor blockers in
- hypertension) Antihypertensives 1T
 - (clin, pharmacokinetics of angiotensin II (AT1) receptor blockers in hypertension)

- ANSWER 38 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) absorption/distribution. plasma protein binding. bioavailability. biotransformation. plasma half-life, and systemic elimination influence the time of onset, duration of action, and efficacy of the ARBS. On the basis of the daily mg dose, the anti-hypertensive potency of the ARBS follows the sequence: candesartan cilexetil > telmisartan | basartan > irbesartan valsartan > eprosartan. After oral administration, the ARBS are rapidly absorbed (time for peak plasma levels = 0.5-4 h) but they have a wide range of bioavailability (from a low of 138 for eprosartan to a high of 60-808 for irbesartan): food does not influence the bioavailability. except for valsartan (a redn. of 40-502) and eprosartan (increase). A limited dose-peak plasma levels/areas under the plasma level-time curve proportionality is obsd. for some of the ARBS. Most of these drugs have high plasma protein binding (95-1002): irbesartan has the lowest binding among the group (90%). The steady-state vols. of distribution vary from a low of 9 L (candesartan) to a high of 500 L (telmisartan). Plasma elimination half-life is short for candesartan (1-4 h). Intermediate for eprosartan and valsartan (5-10 h), and longer for candesartan, irbesartan and telmisartan (11-38 h): the active metabolite of losartan has a longer half-life than for the parent drug. The drugs and their active metabolites do not accumulate to a significant extent after repeated dosing, except for telmisartan (100%). Most of the orally administered dose of ARBs is excreted via bile into the feces: from 2% (telmisartan) to 3% (candesartan) of the oral dose is excreted in the urine. In most cases, changes in pharmacokinetic parameters due to aging, mild to moderate renal disease and heart failure do not require dosage modification: dosage has to be individualized for eprosartan, losartan. telmisartan and valsartan in patients with hepatic disease. In general, pharmacokinetic organgery drug interactions are rare, with the exception of co

 - diabetic nephropathy.
 Clinical pharmacokinetics of angiotensin II (AT1)
 - Clinical pharmacokinetics of anglotensin II (ATI) receptor blockers in hypertension A review with I74 refs. Anglotensin II receptor blockers (ARBs) represent a new class of effective and well tolerated orally active antihypertensive agents. Recent clin. trials have. . . long-term studies are in progress to assess the beneficial effects of ARBs on cardiac hypertrophy, renal function, and cardiovascular and cerebrovascular morbidity and mortality in hypertensive patients with or without diabetes mellitus, and the value of these drugs in patients with heart disease and diabetic nephropathy. The ARBs specifically block the interaction of anglotensin II at the AT. receptor, thereby relaxing smooth muscle, increasing salt and water excretion, reducing plasma vol., and decreasing cellular

 - L1 ANSWER 39 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2000:281826 Document No. 133:236176 Response of the rabbit arteriosclerotic basilar artery to vasoactive substances. Ozaki. Masashige (Dep. Neurosurgery, Osaka Medical College, Japan). Osaka ika Daigaku Zasshi. SS(3), 26-35 (Japanses) 1999. CODEN: 0107AU. ISSN: 0030-6118. Publisher: Osaka Ika Daigaku Igakkai.

 AB The present study was performed to examine the influence of arteriosclerosis on vascular tone and to investigate the possible involvement of arteriosclerosis in cerebral vasospasm in a new line of Natanabe heritable hyperlipidenic (NHHL) rabbits. For these purposes, vascular responses of isolated basilar artery rings to vasoconstricting and vasodilating substances were compared in HHRL and age-matched Japanses white (JW) rabbits. In HHHL rabbit basilar arteries, endothelium-dependent relaxations caused by acetylcholine were less potent than those seen in the JW rabbit arteries. while those caused by substance P did not differ between the two strains. Endothelium-independent relaxations caused by soft in intropresside, an NO donor, and beraprest, a prostacyclin analog, did not differ. Contractions induced by endothelin (ET)-1 and by histamine were potent in the WHHL than in the JW rabbit arteries. However, contractions caused by serotonin, neuropeptide Y, and angiotensin II were not different. Histol. observations by light microscopy revealed that arteriosclerotic lesions contg. fibromatous plaque were obsd. in WHH. but not JW, basilar arteries. It is suggested that endothelial functions responsible for NO synthesis and release do not seem to be impaired in arteriosclerotic cerebral arteries. but potentiated responses to ET-1 and histamine may promote cerebral vasospasm after subarachonid hemorrhage.

 AB histamine were potent in the WHH. than in the JW rabbit arteries. Ploweer, contractions caused by serotonin, neuropeptide Y, and angiotensin II were not different. Histol. observations by light microscopy revealed that arteriosclerotic lesions contg. fibroma
 - - Brain, disease ann. uisease (cerebrum, vasospasm: basilar artery response to vasoactive substances in hyperlipidemic rabbits in relation to arteriosclerosis involvement in cerebral vasospasm after subarachnoid hemorrhage

L1 ANSWER 40 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:20990B Document No. 132:241973 Pharmaceutical compositions containing an angiotensin II ATI receptor antagonists and an antiplatelet agent. Cazaubon. Catherine: Herbert. Jean-Marc: Nisato. Dino (Sanofi-Synthelabo, Fr.). PCI Int. Appl. No 2000016773 Al 20000330. 25 pp. DESIGNATED STATES: N: AE. AL. AM. AT. AU, AZ. AB. AB. BB. BB. BY. PC. AC. CH. CN. CR. CU. CZ. DE. DK. DM. EE. ES. FI. GB. GD. GE. GH. GM. HR. CL. U. LI. IN. 1S. JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU. LV. MD. NS. MK. MM. MM. MK. NO. NZ. PL. PT. RO. RU. SD. SS. CS. SI. SK. SL. TJ. TH. TT. TU. A. US. US. UY. VM. YU. ZA. ZW. AM. AZ. BY. KG. KZ. MD. RU. TJ. TH. RW: AT. BE. BF. BJ. CF. CG. CH. CI. CH. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. KV. MW. MR. NN. NL. PT. SS. SN. TD. TG. (French). CODEN: PIXYOZ. APPLICATION: WO 1999-FR2128 1999090B. PRIORITY: FR. 1989-11747 1998092D.

PRIORITY: FR 1998-11747 19980921.
Pharmaceutical compns. contg. an angiotensin II ATI receptor antagonist and an antiplatelet agent are claimed. The antithrombotic efficacy of 100 mg/kg irbesartan and 10 mg/kg clopidogrel hydrogen sulfate is shown. A tablet contained irbesartan 50. clopidogrel hydrogen sulfate 97.5. lactose 48.5. maize starch 44. talc 25. polyvinylpyrrolidone 9. anhyd. colloidal silica 0.5. and magnesium stearate 3 mg. Pharmaceutical compositions containing an angiotensin II ATI receptor antagonist and an antiplatelet agent Pharmaceutical compos. contg. an angiotensin II ATI receptor antagonist and an antiplatelet agent The antiplatelet agent are Claimed. The antiplatelet efficacy of 100 mg/kg irbesartan and 10 mg/kg clopidogrel.

Angiotensin receptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(ATL. antagonists; pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)

Heart, disease

(angina pectoris; pharmaceutical compns. contg. angiotensin II AT1 receptor antagonist and antiplatelet agent)

IT

Artery
(angioplasty: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)
Antiarteriosclerotics
(antiatherosclerotics: pharmaceutical compns. contg.
angiotensin II ATI receptor antagonist and

anglotensin II ATI receptor
antiplatelet agent)

IT Drug delivery systems
(capsules: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)

ain, disease (cerebrovascular: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

ANSWER 40 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continuous (synergic: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

Antihypertensives (synergistic: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent) Drug delivery systems (tablets: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

Embolism (thromboembolism; pharmaceutical compns, contg. angiotensin II AT1 receptor antagonist and antiplatelet agent)

art. disease

rrt. disease
(ventricular fibrillation: pharmaceutical compns. contgangiotensin II ATI receptor antagonist and
antiplatelet agent)

Integrins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)
(.a)pha.IIb.beta.3, antagonists: pharmaceutical compns. contg.
angiotensin II ATI receptor antagonist and
antiplatelet agent)
53885-35-1, Ticlopidine hydrochloride 120202-66-6. Clopidogrel hydrogen
sulfate 138402-11-6. Irbesartan
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES

(pharmaceutical compns. contg. anglotensin II AT1 receptor antagonist and antiplatelet agent)

Page 19

ANSWER 40 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) Mental disorder

(dementia: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

ΙT

II ATI receptor antagonist and antiplateire opens

ye, disease
(diabetic retinopathy; pharmaceutical compns, contg.
anglotensin II ATI receptor antagonist and
antiplatelet agent)
Cardiovascular system
(disease; pharmaceutical compns, contg. anglotensin
II ATI receptor antagonist and antiplatelet agent)
Prosthetic materials and Prosthetics
(endovascular; pharmaceutical compns, contg. anglotensin
II ATI receptor antagonist and antiplatelet agent)
Heart, disease

Hart disease
(failure: pharmaceutical compns. contg. angiotensin
II ATl receptor antagonist and antiplatelet agent)

Dialysis (hemodialysis; pharmaceutical compns. contg. angiotensin II AT1 receptor antagonist and antiplatelet agent)

Hall receptor antagonist and action to the test of the

Vein

(insufficiency: pharmaceutical compns. contg. anglotensin
II ATI receptor antagonist and antiplatelet agent)
Drug delivery systems
(oral: pharmaceutical compns. contg. anglotensin II
ATI receptor antagonist and antiplatelet agent)

Org delivery systems
(parenterals; pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)

Artery, disease (peripheral: pharmaceutical compns. contg. anglotensin II ATI receptor antagonist and antiplatelet agent) Antidiabetic agents

IT Antidiabetic agents
Brain, disease
Glaucoma (disease)
Platelet aggregation inhibitors
(pharmaceutical compns. contg. angiotensin II ATI
receptor antagonist and antiplatelet agent)
IT Artery, disease
(restenosis: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent) Anticoagulants

L1 ANSWER 41 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:140122 Document No. 133:72264 Renin-angiotensin-aldosterone system gene
polymorphisms and hypertension in Hong Kong Chinese. Thomas. G. Neil:
Young. Robert P.: Tomlinson. Brian: Noo. Kam Sang: Sanderson. John E.:
Critchley. Julian A. J. H. (Department of Medicine and Therapeutics. The
Chinese University of Hong Kong, Hong Kong, Peop. Rep. China). Clinical
and Experimental Hypertension. 22(1). 87-97 (English) 2000. CODEN:
CEHYER. ISSN: 1064-1963. Publisher: Marcel Dekker, Inc..
All In Chinese populations. hypertension is common and is a major risk factor
for cerebrovascular and coronary heart disease. The
renin-angiotensi-aldosterone system (RAXS) helps maintain blood pressure
and salt homeostasis and appears important in the pathogenesis of
hypertension and some forms of vascular disease. We investigated three
RAXS gene polymorphisms. the angiotensin-converting enzyme (ACE)
insertion/deletion. angiotensinogen (ACT) M2351 and angiotensin
II type 1 receptor Al166C polymorphisms in 222 hypertensive and
178 normotensive Chinese subjects. The hypertensives were generally more
obese and dyslipidemic. No significant differences in genotype or allele
frequencies for any of the polymorphisms were identified between the
groups. nor was there any interactive contribution to blood pressure by
the ACE and ACT polymorphisms. However. there were large differences in
genotype and allele frequencies between the healthy Chinese and published
data for equiv. Caucasian populations. These indings suggest these
polymorphisms are unlikely to be involved in the pathogenesis of
hypertension in Chinese.
AB In Chinese populations, hypertension is common and is a major risk factor
for cerebrovascular and coronary heart disease. The
renin-angiotensin-aldosterone system (RAAS) helps maintain blood pressure
and salt homeostasis and appears important in the. . . some forms of
vascular disease. We investigated three RAAS gene polymorphisms the
angiotensin-converting enzyme (ACE) insertion/dele

Aging, animal
Allele frequency
Genetic polymorphism
Genotypes

Obesity
Population genetics
(ACE. angiotensinogen and angiotensin II type 1
receptor gene polymorphisms in hypertension in human Hong Kong Chinese)

Gene. animal
RL: 80C (Biological occurrence): BSU (Biological study, unclassified): PRP
(Properties): BIOL (Biological study): OCCU (Occurrence)
(AST: ACE. angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong

1 receptor gene polymorphisms in hypercass.
Angiotensin receptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(ATI: ACE, angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong

10/031.398

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ANSWER 41 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
                     Gene. animal
RL: BOC (Biological occurrence): BSU (Biological study. unclassified): PRP
(Properties): BIOL (Biological study): OCCU (Occurrence)
(ATIR: ACE. angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong
(Chinges)
                   Gene. animal
ΙT
                   Chinese)
Gene. animal
RL: BOC (Biological occurrence): BSU (Biological study. unclassified): PRP
(Properties): BIOL (Biological study): OCCU (Occurrence)
(Ace: ACC. angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong
(Extense)
                                     Chinese)
                      Glycerides, biological studies
                       Glycerides, biological studies RL: BDC (Biological occurrence): BSU (Biological study, unclassified): BDL (Biological study): OCCU (Occurrence) (blood: ACE. angiotensinogen and angiotensin II type 1 receptor gene polymorphisms in hypertension in human Hong Kong Chinese)
   To Lipids. biological studies
R: ADV (Adverse effect. including toxicity); BOC (Biological occurrence);
BSU (Biological study, unclassified); BIOL (Biological study); OCCU
                      BSU (Biological study, unclassified): SILL (Studycar study), design (Occurrence)
(dyslipidemia: ACE, angiotensinogen and angiotensin
II type 1 receptor gene polymorphisms in hypertension in human
Hong Kong Chinese)
Lipoproteins
RL: BDC (Biological occurrence): BSU (Biological study, unclassified):
BDC (Biological study): OCCU (Occurrence)
(high-d.: ACE, angiotensinogen and angiotensin II
type 1 receptor gene polymorphisms in hypertension in human Hong Kong
Chinese)
                       type I receptor gene polymorphisms in hypertension in number rong kong frincese)
57-88-5. Cholesterol. biological studies
RL: 80C (Biological occurrence): BSU (Biological study. unclassified):
BIOL (Biological study): OCCU (Occurrence)
(ACE. angiotensinogen and angiotensin II type 1
receptor gene polymorphisms in hypertension in human Hong Kong Chinese)
9015-82-1. Angiotensin-converting enzyme 11002-13-4. Angiotensinogen
(protein renin substrate)
RL: BSU (Biological study. unclassified): BIOL (Biological study)
(ACE. angiotensinogen and angiotensin II type 1
receptor gene polymorphisms in hypertension in human Hong Kong Chinese)
50-99-7. D-Glucose. biological studies
RL: BOC (Biological occurrence): BSU (Biological study. unclassified):
BIOL (Biological study): OCCU (Occurrence)
(blood: ACE. angiotensinogen and angiotensin II
type 1 receptor gene polymorphisms in hypertension in human Hong Kong
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L1 ANSWER 42 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:111307 Document No. 132:146719 Role of renin-angiotensin system in
regulation of cerebral circulation. Takishita. Shuichi (Div. Hypertension
Nephrol., Natl. Cardiovasc. Cent., Japan). Horumon to Rinsho, 48(2).
125-132 (Japanese) 2000. CODEN: HORIAE. ISSN: 0045-7167. Publisher:
Igaku no Sekaisha.

AB A review with 28 refs., on regulatory mechanism of cerebral circulation.
and pathophysiol. roles of renin-angiotensin system therein. The
cerebrovascular and cerebral circulation-protecting effects of ACE
inhibitors and ATI antagonists are also discussed.

A review with 28 refs., on regulatory mechanism of cerebral circulation.
and pathophysiol. roles of renin-angiotensin system therein. The
cerebrovascular and cerebral circulation-protecting effects of ACE
inhibitors and ATI antagonists are also discussed.

Angiotensin receptor antagonists
(angiotensin II; pathophysiol. role of
renin-angiotensin system in regulation of cerebral circulation)

Page 20

- L1 ANSWER 41 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- 69-93-2. Uric acid. biological studies 7440-23-5. Sodium. biological

69-93-2. Unic acto. Diological studies
RL: BOC (Biological occurrence): BSU (Biological study. unclassified):
BIOL (Biological study): OCCU (Occurrence)
(plasma: ACE. angiotensinogen and angiotensin II
type 1 receptor gene polymorphisms in hypertension in human Hong Kong
Chinese)

ANSWER 43 OF 123 CAPLUS COPYRIGHT 2003 ACS
00:64537 Document No. 132:342571 Therapeutic options in minimizing left ventricular hypertrophy. Devereux, Richard B. (Division of Cardiology. New York Presbyterian Hospital/Cornell Medical Center. New York. NY.
10021, USA). American Heart Journal, 139(1, Pt. 2). 59-514 (English)
2000. CODEN: AHJOA2. ISSN: 0002-8703. Publisher: Mosby. Inc.. A review with 29 refs. Left ventricular hypertrophy (LVH). a target-organ response to chronic pressure or vol. overload, is assocd, with its own independent risks of death in patients with hypertension. Numerous studies have shown that LVH increases the risk of coronary heart disease. congestive heart failure, stroke or transfent ischewic attack. all-cause deaths, and sudden death. Although the mechanisms by which LVH develops are incompletely understood, the renin-angiotensin system may play on important role. All major classes of antihypertensive agents (calcium channel blockers, diuretics, beta.-blockers, anglotensin-converting enzyme inhibitors) can cause LVH regression but not all to the same degree. Angiotensin-converting enzyme inhibitors may provide the most pronounced redn. in left ventricular mass per mm of mercury of blood pressure redn. In addn., animal studies and human trials show promise for the regression of LVH with the use of angiotensin receptor blockers (ABBS). Becuase ABBs act specifically on the ATI receptor, angiotensin II can exert its favorable effects on cell growth inhibition through the ATZ receptor. One small study that compared the AAB valsartan with atenolol found significant regression of LVH with the ARB by 8 mo of treatment.

... with hypertension. Numerous studies have shown that LVH increases the risk of coronary heart disease, congestive heart failure. stroke or transient ischewic attack.

all-cause deaths, and sudden death. Although the mechanisms by which LVH develops are incompletely understood, the renin-angiotensin system may play. the regression of LVH with the use of angiotensin recepto

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L1 ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:34745 Document No. 132:93309 Preparation of N-isoxazolyl biphenyl sul fonamides and related compounds as dual angiotensin II and endothelin receptor antagonists. Murugesan. Natesan: Tellew. John E: Macor. John E: Gu. Zhengxiang (Bristol-Myers Squibb Co.. USA). PCT Int. Appl. NO 2000001389 Al 20000113. 283 pp. DESIGNATED USA). PCT Int. Appl. NO 2000001389 Al 20000113. 283 pp. DESIGNATED STATES: W: AL. AM. AT. AU. AZ. AB. AB. BB. BG. BR. BY. CA. CH. CN. CU. CZ. DE. DK. EE. ES. FI. GB. GE. GH. GM. HU. ID. IL. IN. IS. JP. KE. KG. KP. DE. K. EE. ST. I. GB. GE. GH. GM. HU. ID. IL. IN. IS. JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU. LV. MD. MG. MK. MN. MN. MN. NO. NZ. PL. PT. RO. RU. SD. SE. SG. SI. SK. SL. TJ. TM. TR. TT. UA. UG. UZ. VN. YU. ZA. ZW. AM. AZ. BY. KG. KZ. MD. RU. TJ. TM. RWI. AT. BE. BF. BJ. CF. CG. CH. CI. CM. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NE. NL. PT. SE. SN. TD. TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US15063 19990701. PRIORITY: US 1998-91847 19980706.
                                                                                                                                                          SO2NHR3
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AB Title compds. (I: R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = N, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, M02, etc.; R3 = heteroaryl; with provisos), were prepd. as dual angiotensin II and endothelin receptor antagonists (no data). Thus, 4-BrCfMcHZOH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)](2-methoxyethoxy)methyl)aminolsul fonyl]phenyl]boronic acid to give N-(4.5-dimethyl-3-isoxazolyl)-1-4-(tydroymethyl)-N-[(2-methoxyethoxy)methyl][1.1'-biphenyl]-2-sulfonamide. This was brominated to give 4'-bromomethyl-N-(4.5-dimethyl-3-isoxazolyl)-N-([2-methoxyethoxy)methyl][1.1'-biphenyl]-2-sulfonamide. Which reacted with 2-butyl-1.3-diazaspiro[4.4]non-1-en-4-one hydrochloride followed by deprotection to give 4'-[(2-butyl-4-oxo-1.3-diazaspiro[4.4]non-1-en-3-yl)methyl]-N-(4.5-dimethyl-3-isoxazolyl)[1.1'-biphenyl]-2-sulfonamide.

TI Preparation of N-isoxazolyl biphenyl silfonamides and related compounds as dual angiotensin II and endothelin receptor

antagonists.
. . . alkyl. haloalkyl. cycloalkylalkyl. alkenyl. alkynyl. alkoxyalkyl.
alkoxy. cyano. OH. NOZ. etc.: R3 = heteroaryl: with provisos). were prepd.

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ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
            dual angiotensin II and endothelin receptor
antagonists)
Growth inhibitors. animal
            Growth inhibitors, animal RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPM (Symthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of N-isoxacoly) biphenyl sulfonamides and related compds. as dual angiotensin II and endothelin receptor
IT Meninges

(subarachnoid hemorrhage: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Endotoxemia
```

Endotoxemia lischemia (treatment: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

254737-84-3P 254737-85-4P 254737-91-2P 254737-92-3P 254737-94-51

254737-96-7P 254738-9P 254738-91-2P 254738-03-8P 254738-99-254738-06-2P 254738-06-3P 254738-13-1P 254738-10-8P 254738-13-1P 254738-13-1P 254738-13-1P 254738-13-1P 254738-13-1P 254738-13-1P 254738-13-1P 254738-13-1P 254738-13-1P 254738-20-0P 254738-13-1P 254738-20-0P 254738-21-1P 254738-254737-87-6P 254737-88-7P 254737-92-3P 254738-03-9P 254738-10-8P 254738-15-3P 254738-16-4P 254738-16-4P 254738-16-4P 254738-05-1P 254738-11-9P 254738-16-4P 254738-21-1F 254738-26-6P 254738-31-3P 254738-36-8P 254738-41-5P 254738-46-0P 254738-51-7P 254738-56-2P 254738-55-1P 254738-60-8P 254738-65-3P 254738-70-0P 254738-52-8P 254738-57-3P 254738-62-0P 254738-67-5P 254738-61-9F 254738-59-5P 254738-69-7P 254738-69-7P 254738-80-2P 254738-85-7P 254738-90-4P 254738-90-9P 254739-00-9P 254739-10-1P 254739-15-6P 254739-20-3P 254739-20-3P 254738-66-4P 254738-71-1P 254738-76-6P 254738-58-4P 254738-63-1P 254738-68-6P 254738-73-3P 254738-79-9P 254738-84-6P 254738-94-8P 254738-94-8P 254738-75-5P 254738-81-3P 254738-86-8P 254738-91-5P 254738-72-2P 254738-78-8P 254738-83-5P 254738-82-49 254738-87-9P 254738-92-6P 254738-97-1P 254738-88-0P 254738-96-0P 254739-01-0P 254739-06-5P 254739-11-2P 254738-93-7P 254738-98-2P 254739-03-2P 254739-02-1P 254738-99-3P 254739-04-3P 254739-09-8P 254739-14-5P 254739-07-6F 254739-12-3F 254739-08-7P 254739-16-7P 254739-21-4P 254739-26-9P 254739-17-8F 254739-13-4P 254739-18-9P 254739-14-5P 254739-24-7P 254739-24-7P 254739-39-9P 254739-34-9P 254739-39-4P 254739-44-1P 254739-49-6P 254739-54-3P 254739-22-5P 254739-27-0P 254739-32-7P 254739-20-3P 254739-25-8P 254739-30-5P 254739-35-0P 254739-40-7P 254739-45-2P 254739-55-4P 254739-23-6P 254739-31-6P 254739-28-1P 254739-31-6P 254739-36-1P 254739-41-8P 254739-46-3P 254739-51-0P 254739-56-5P 254739-37-2P 254739-33-8P 254739-38-3P 254739-42-9P 254739-47-4P 254739-52-1P 254739-43-0P 254739-48-5P 254739-57-6F

L1 ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) as dual angiotensin II and endothelin receptor antagonists (no data). Thus, 4-BrCGHMCH2DH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl](C-methoxyethoxy)methyl]amino]sulfonyl]ph enyl [boronic acid to give N-(4.5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-((2-methoxyethoxy)methyl)[[1.1'-biphenyl]-2-sulfonamide. This was brominated to

enyl]boronic acid to give 4-0.3-diments]
enyl]boronic acid to give 4-0.3-diments]
h-[(2:-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide. This was broninated to.

I Angiotensin receptors
RI: BPR (Biological process): BSU (Biological study, unclassified); MSC (Miscellaneous): BIDL (Biological study): PROC (Process)
(angiotensin II, antagonists; prepn. of
N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

II Endothelin receptors
RI: BPR (Biological process): BSU (Biological study, unclassified); MSC (Miscellaneous): BIDL (Biological study): PROC (Process)
((Miscellaneous): BIDL (Biological study): PROC (Process)
((antagonists; prepn. of N-isoxazoly) biphenylsulfonamides and receptor antagonists)

II Antiarteriosclerotics; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

II Prostate gland

IT Prostate gland ostate glamu
(benign hyperplasia, treatment; prepn. of N-isoxazolyl
biphenylsulfonamides and related compds. as dual angiotensin
II and endothelin receptor antagonists)

IT Sexual behavior
(disorder. treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Heart. disease
(failure. treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Kidney, disease
(failure: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Sexual behavior
(impotence, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Antiasthmatics

Antihypertensives Antimigraine agents (prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as

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L1 ANSWER 44 OF 123 CAPLIS COPYRIGHT 2003 ACS (Continued)

254739-63-79 254739-59-8P 254739-60-1P 254739-61-2P 254739-67-8P 254739-63-4P 254739-63-4P 254739-61-P 254739-67-8P 254739-63-9P 254739-70-3P 254739-71-4P 254739-81-6P 254739-81-6P 254739-81-8P 254739-81-8P
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             (a) angiotensin II and endother in receptor antagonists)

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                                     254744-13-3P
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antanomics)
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antagonists)
56-12-2. 4-Aminobutyric acid. reactions 75-03-6. Iodoethane 78Tetraethyl orthocarbonate 79-03-8. Propionyl chloride 79-44-7.

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ANSHER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS 254745-03-4P 254745-06-7P 254745-08-9P 254745-12-5P 254745-19-2P 254745-31-8P 254745-31-8P 254745-31-8P 254745-31-8P 254745-31-8P 254745-31-8P 254745-31-8P 254745-31-8P 254745-31-4P 254745-50-4P 254746-10-6P 254746-10-6P 254746-10-4P 254746-20-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-20-4P 254746-20-4P 254746-10-4P 254746-20-4P 254746-10-4P 254746-20-4P 254746-20-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-10-4P 254746-20-4P 254746-20-4P 254746-10-4P 254746-20-4P 254746-10-4P 2
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254746-43-5P
                     254746-31-1P
                   254746-45-7P
254746-50-4P
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RE: RCI (Reductant), 3 in Community (Reactant or reagent)
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

L1	ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) Dimethylcarbamyl chloride 95-89-6. 2-Chloro-3.6-dimethylpyrazine 109-81-9. N-Nethylethylenediamine 124-40-3. Dimethylamine. reactions 127-08-2. Potassium acetate 541-41-3. Ethyl chloroformate 543-27-1. 1sobutyl chloroformate 589-15-1. 4-Bromobenzyl bromide 627-03-2. Ethovyacetic acid 638-29-9. Valeryl chloride 676-58-4. Nethylmagnesium chloride 680-15-9 767-00-0. 4-Cyanophenol 865-33-8. Potassium ethoxide 873-75-6. 4-Bromobenzyl alcohol 117-97-1. N-Methoxy-M-methylamine 1122-91-4. 4-Bromobenzaldehyde 1450-75-5 1500-32-1. Ethyltriphenylphosphonium bromide 1609-86-5. tert-Butyl 1530-32-1. Ethyltriphenylphosphonium bromide 1609-86-5. tert-Butyl 1530-32-1. 4-Bromobenzyl amine 4858-85-9. 2.3-Dichloropyrazine 1530-34-1. 4-Bromo-3-nitrotoluene 6282-47-3. Propyltriphenylphosphonium bromide 6482-24-2. 1-Bromo-2-methoxyethame 13734-41-3 14508-49-7. 2-Chloropyrazine 14678-02-5. 5-Amino-3-methylistoxazole 22905-922-9. 2-Chloropyrazine 24678-02-5. 5-Amino-3-methylistoxazole 22905-922-9. 3-Bromo-4-methoxybenzaldehyde 40155-28-0. 2-Chloro-3-methoxyprazine 19696-62-1. 9. 4-Amino-1.3.5-trimethylpyrazole 29006-02-8 33670-32-5. Methoxymethyltriphenylphosphonium bromide 3428-47-7 3441-06-0. 3-Bromo-4-methoxybenzaldehyde 40155-28-0. 2-Chloro-3-methoxyprazine 25596-60-4 60421-22-0 74410-26-7 2-Chloro-3-nitrobenzoate 53596-60-4 60421-23-0 74810-26-7 2-Chloro-3-nitrobenzoate 53596-60-4 60421-23-0 74810-26-7 2-Chloro-3-nitrobenzoate 53596-60-4 60421-23-0 74910-26-7 3-Chloro-3-nitrobenzoate 53596-60-4 60421-23-0 74910-26-7 3-Chloro-3-nitrobenzoate 53596-60-4 60421-23-0 74910-26-7 3-Ch
	RL: RCT (Reactant): RACT (Reactant or reagent) RL: RCT (Reactant): RACT (Reactant or reagent)

(prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor

dual angiotensin II and endothelin receptor
antagorists'

II 14847-51-9P 79047-47-5P 89003-95-2P 123652-98-2P 142031-67-2P
160313-48-4P 176961-30-1P 189762-06-9P 189762-08-1P 190197-86-5P
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Screene Inc.

English) 1999. CODEN: AJHYEE. ISSN: 0895-7061. Publisher: Elsevier Science Inc..
A review with 57 refs. Hypertension remains uncontrolled worldwide despite the availability of several classes of antihypertensive agents. There is an increased risk of serious cardiovascular. Increased risk of serious cardiovascular. On the control make it imperative that more effective and well-tolerated treatments that exhibit target-organ protection be developed. Vasopeptidase inhibitors are a new class of cardiovascular agents that simultaneously inhibit neutral endopeptidase and angiotensin converting enzyme. They enhance peptides with vasodilatory and possibly organ-protective properties and also inhibit the prodn. of the vasoconstrictor angiotensin II. In preclin. studies. onapatrilat has shown blood pressure:—lowering effects independent of renin status and has increased survival in an animal model of congestive heart failure. Human studies with onapatrilat, the most clin. advanced yosepetidase inhibitor. administered orally once daily have demonstrated yosepetidase inhibitor. Insiduring is well tolerated. With adverse effects comparable to those of currently available antihypertensive agents. Onapatrilat and other vasopeptidase inhibitors have potential applications in the treatment of hypertension, heart failure, and other cardiac and vascular disorders.

vascular disorders.

remains uncontrolled worldwide despite the availability of several classes of antihypertensive agents. There is an increased risk of serious cardiovascular, cerebrovascular, and renal events if the disease goes untreated or is poorly treated. Thus, the high incidence of hypertension coupled with. angiotensin converting enzyme. They enhance peptides with vasodilatory and possibly organ-protective properties and also inhibit the prodin. of the vasoconstrictor angiotensin II. In preclin, studies, omapatrilat has shown blood pressure-lowering effects independent of renin status and has increased survival in an animal.

- L1 ANSWER 46 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1999:811090 Document No. 132:30836 Preventing cerebral infarction through administration of ADP-receptor antiplatelet and antihypertensive drugs in combination. Conligito. Anthony A.: Plat Arthur and Provided For Preventing Core Preventing

: ACE inhibitor cerebral invarcion
Purinceptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(P2T, antagonists: preventing cerebral infarction
through administration of ADP-receptor antiplatelet and
antihypertensive drugs in combination)
Drug delivery systems
(capsules: preventing cerebral infarction through
administration of ADP-receptor antiplatelet and antihypertensive drugs

administration of ADP-receptor antiplatetet and antiplate in combination)
Brain, disease
(infarction: preventing cerebral infarction through
administration of ADP-receptor antiplatelet and antihypertensive drugs
in combination)

Antihypertensives

Anthypertensives
Platelet aggregation inhibitors
(preventing cerebral infarction through
administration of ADP-receptor antiplatelet and antihypertensive drugs

- L1 ANSWER 47 OF 123 CAPLUS COPYRIGHT 2003 ACS 1999:704167 Document No. 132:59266 Emerging fee
- ANSWER 47 OF 123 CAPLUS COPYRIGHT 2003 ACS

 3:704167 Document No. 132:59266 Emerging features of brain angiotensin receptors. Saavedra. J. M. (Section on Pharmacology. National Institute of Mental Health. Bethesda. No. USA). Regulatory Peptides. 85(1). 31-45 (English) 1999. CODEN: REPPDY. ISSN: 0167-0115. Publisher: Elsevier Science Ireland Ltd..

 A review with 73 refs. In mammalian brain, angiotensin
 II ATI and AT2 receptor subtypes are apparently expressed only in neurons and not in glia. ATI and AT2 receptor subtypes are sometimes closely assocd. but apparently expressed in different neurons. Brain ATI/AT2 interactions may occur in selective cases as inter-neuron cross talk. There are two ATI isoforms in rodents. ATIA, which predominates, and ATIB. There are also important inter-species differences in receptor expression. Relative lack of amino acid conservation in the gerbil gATIA receptors substantially decreases affinity for the ATI antagonists. ATI receptors are expressed in brain areas regulating autonomic and homonal responses. ATIA receptors are heterogeneously regulated in a no. of exptl. conditions. In specific areas, ATIA receptors are not normally expressed. but are induced under influence of reproductive homomes in departmentally regulated. A picture is emerging of widespread. neuronally localized. heterogeneously regulated in a no. of event and pression is developmentally regulated. A picture is emerging of widespread. neuronally localized, heterogeneously regulated, closely assocd, brain angiotensin receptor subtypes, modulating multiple functions including neuroendocrine and autonomic responses. stress, cerebrovascular flow, and perhaps brain maturation, neuronal plasticity, memory and behavior.

 If A review with 73 refs. In mammalian brain, angiotensin including neuroendocrine and autonomic responses, stress cerebrovascular flow, and perhaps brain maturation, neuronal plasticity, memory and behavior.

 In 11128-99-77, Angiotensin II

 III 28-99-77, Angiotensin II

 III 28-99-77, Angiotensin II

Page 23

- L1 ANSWER 46 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- in combination)
 Drug delivery systems
- IT Drug delivery systems
 (tablets: preventing cerebral infarction through
 administration of ADP-receptor antiplatelet and antihypertensive drugs
 in combination)
 IT 9015-82-1, Anglotensin-converting enzyme
 RL: BSU (Biological study. unclassified); BIOL (Biological study)
 (inhibitors: preventing cerebral infarction through
 administration of ADP-receptor antiplatelet and antihypertensive drugs
 in combination)
- in combination)
 55142-85-3. Ticlopidine 62571-86-2. Captopril 75847-73-3. Enalapril
 76547-98-3. Lisinopril 8541-61-8. Quinapril 86541-75-5. Benazepril
 87333-19-5. Rømipril 87679-37-6. Trandolapril 98048-97-6. Fosinopril
 113665-84-2. Clopidogrel 114798-26-4. Losartan 133040-01-4. Eprosartan
 137862-53-4. Valsartan 138402-11-6. Irbesartan 139481-59-7.
 Candesartan 144701-48-4. Telmisartan 145733-36-4. Tasosartan
 167305-00-2. Gmapatrilat
 RL: BAC (Biological activity or effector, except adverse): BSU (Biological study): USES
 (Uses)

(preventing cerebral infarction through administration of ADP-receptor antiplatelet and antihypertensive drugs in combination)

- L1 ANSWER 48 0F 123 CAPLUS COPYRIGHT 2003 ACS
 1999:686140 Document No. 132:206425 Beneficial effect of renin-angiotensin
 system for maintaining blood pressure control following subarachnoid
 haemorrhage. Fassot. C.: Lambert. G.: Gaudet-Lambert. E.: Friberg. P.:
 Elghozi, J.-L. (CNRS UNR 8604. Laboratoire de Pharmacologie, Faculte de
 Medecine Necker, Parts. Fr.). Brain Research Bulletin. 50(2). 127-132
 (English) 1999. CODEN: BRBUDU. ISSN: 0361-9230. Publisher: Elsevier
- Elghori, J.-L. (CIRS LMR 8604, Laboratorire de Pharmacologie, Faculte de Nedecine Necker, Paris, Fr.). Brain Research Bulletin, 50(2), 127-132 (English) 1999. CODEN: BRBUDU. ISSN: 0361-9230. Publisher: Elsevier Science Inc..

 Subarachnoid hemorrhage is a serious condition often accompanied by delayed cerebral ischemia. Earlier reports have provided evidence suggesting a role for angiotensin II in the development of cerebral vasospasm following subarachnoid bleeding. The authors sought to examine the influence of angiotensin II in the development of cerebral vasospasm following subarachnoid bleeding. The authors sought to examine the influence of angiotensin II blockade with losartan on blood pressure and survival in animals following exptl. subarachnoid hemorrhage.

 Induced in consclous rats by injecting homologous blood via a catheter placed along the surface of the brain. The authors combined neasurements of plasma renin activity with blood pressure recording in order to examine renin-angiotensin system activation following exptl. subarachnoid hemorrhage. Following subarachnoid injury an approx. threefold increase in plasma renin activity occurred (3.4 vs. 10.1 ng angiotensin I produced/mL/h). In animals treated with losartan (20 mg/kg) prior to the induction of subarachnoid hemorrhage blood pressure fell dramatically following the cerebral injury (124 vs. 94 mmlg), whereas blood pressure remained unchanged in control animals. Survival was markedly reduced in those animals treated with losartan. Given the pronounced decrease in blood pressure and impaired survival following subarachnoid hemorrhage in animals treated with losartan. Given the pronounced decrease in blood pressure and impaired survival following subarachnoid hemorrhage in animals treated with losartan. Given the renin-angiotensin system following this insult is in fact a desirable. compensatory response.

 Subarachnoid hemorrhage is a serious condition often accompanied by delayed cerebral ischemia. Earlier reports have provided evidence suggesti

- Blood pressure
 (renin-angiotensin system in maintenance of blood pressure control
 following subarachmoid hemorrhage)
 Blood plasma
 (renin: renin-angiotensin system in maintenance of blood pressure
 control following subarachmoid hemorrhage in
 colution to) ΙT
- relation to) inges (subarachnoid hemorrhage: renin-angiotensin system in maintenance of blood pressure control following subarachnoid
- 9015-94-5. Renin. biological studies 11128-99-7. Angiotensin
 - 11 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (renin-angiotensin system in maintenance of blood pressure control following subarachnoid hemorrhage)

- ANSWER 50 OF 123 CAPLUS COPYRIGHT 2003 ACS
 19:41817 Document No. 131:209147 Angiotensin and cerebral blood flow.
 Saavedra, Juan M.; Nishimura. Yasuki (Section on Pharmacology, National Institute of Mental Health, Bethesda, MD. 20892-1264 (SA). Cellular and Molecular Neurobiology. 19(5), 553-573 (English) 1999. COORIO: CMNEDI.
 SSN: 0272-4340. Publisher: Kluwer Academic/Plenum Publishers.
 A review. with .apprx.II0 refs. The authors discuss the following tooles:
 (1) General properties of the cerebral circulation. (2) Cerebral blood flow autoregulation in hypertension. in stroke, and during the aging process. (3) The Angiotensin system. (4) Angiotensin receptor subtypes.
 (5) Angiotensin receptors and actions of Angiotensin receptor subtypes.
 (5) Angiotensin II. (6) The cerebrovascular and circulating Angiotensin system. (7) Effects of Angiotensin II on cerebrovascular reactivity. (8) Angiotensin and cerebrovascular flow. (9) Effects of therapeutic modulation of the Angiotensin II system on cerebrovascular reculation in health and disease.

 . . . stroke, and during the aging process. (3) The Angiotensin system. (4) Angiotensin receptors subtypes. (5) Angiotensin receptors and actions of Angiotensin II in the brain: interactions between the brain and circulating Angiotensin II. (6)
 The cerebrovascular Angiotensin system. (7) Effects of Angiotensin II or cerebrovascular reactivity, (8) Angiotensin and cerebrovascular flow. (9) Effects of therapeutic modulation of the Angiotensin II system on cerebrovascular reactivity, (8) Angiotensin and cerebrovascular flow. (9) Effects of therapeutic modulation of the Angiotensin II system on cerebrovascular reactivity, (8) Angiotensin and cerebrovascular flow. (9) Effects of therapeutic modulation in health and disease.

 1407-47-2. Angiotensin 11128-99-7. Angiotensin: II System on cerebrovascular regulation in health and disease.

 1407-67-2. Angiotensin 11128-99-7. Angiotensin: II System on cerebrovascular regulation in health and disease.

 1407-67-2. Angiotensin 11128-99-7. Angio
- - (angiotensin and cerebral blood flow in relation to health and disease)

L1 ANSWER 49 OF 123 CAPLUS COPYRIGHT 2003 ACS
1999:599251 Document No. 131:208400 Long-term potential of angiotensin receptor blockade for cardiovascular protection in hypertension: the VALUE trial. Julius. Stevo (Division of Hypertension. Department of Internal Medicine University of Michigan Medical School. Ann Arbor. MI. USA). Cardiology. 91(Suppl. 1). 8-13 (English) 1999. CODEN: CAGYAO. ISSN: 0008-6312. Publisher: S. Karger AG.
A review with 47 refs. The recent decrease of cardiovascular mortality in the USA is less pronounced than it has been in the preceding three decades. Elsewhere. cardiovascular mortality decreased and in some countries it increased. Cerebrovascular disease and ischemic heart disease were responsible for 21% of deaths recorded by the World Health Organization in 1990 and 1997. of which hypertension was estd. to be directly responsible for half of these deaths. Apart from blood pressure (BP) elevation. essential hypertension is frequently assocd. with factors that increase the risk of poor cardiovascular outcomes: insulin resistance/dyslipidemia. elevated angiotensin and norepinephrine. a tendency for hypercoagulability. platelet overactivity, tachycardia. wulnerability to arrhythmias, vascular hypertrophy. Excess activation of the renin-angiotensin system. independent of BP elevation. contributes to these abronmalities. To achieve better results in the future. focus must be shifted from BP lowering to recognition of specific effects of drugs on these diverse pathophysiol. aspects of hypertension. The Valsartan Antihypertensive Long-tem Use Evaluation (VALUE) trial. which is evaluating the effect of valsartan (Diovan) vs. amilodipine. Is a milestone in the effort to test whether never compos. offer a better redn. of the cardiovascular consequences of hypertension, as well as good BP control. The hypothesis is that valsartan by antagonizing the neg. effects of angiotension on snooth muscle cell growth. endothelial function. sympathetic overactivity, and coagulation. may have for the same

BP lowering, better protective effects than the feating between amoldphine.

... pronounced than it has been in the preceding three decades.
Elsewhere. Cardiovascular mortality decreased and in some countries it increased. Cerebrovascular disease and ischemic heart disease were responsible for 21% of deaths recorded by the World Health Organization in 1990 and.

Angiotensin receptor antagonists
(angiotensin II: long-term potential of angiotensin receptor blockade with valsartan for cardiovascular protection in hypertension in humans)

- ANSWER 51 OF 123 CAPLUS COPYRIGHT 2003 ACS
 0:56587 Document No. 130:104666 Protective effects of angiotensin
 II receptor antagonists on damaged target organs. Hiwada. Kunio
 (Sch. Med.: Ehime Univ.: Ehime. 791-02. Japan). Cardiac Practice. 10(1).
 25-29 (Japanese) 1999. CODEN: CARPEM. ISSN: 0915-874X. Publisher:
 Meditaru Rehvusha

- Medikaru Rebyusha.

 A review with 14 refs... on effects of antihypertensive angiotensin II receptor antagonists on left ventricular hypertrophy, heart failure. Cerebrovascular diseases, and renal failure. Protective effects of angiotensin II receptor antagonists on damaged target organs A review with 14 refs.. on effects of antihypertensive angiotensin II receptor antagonists on left ventricular hypertrophy, heart failure. cerebrovascular diseases, and renal failure. review angiotensin II receptor antagonist: antihypertensive angiotensin antagonist organ protection review Angiotensin receptor antagonists

 (angiotensin II: protective effects of angiotensin III: protective effects of angiotensin II receptor antagonists on damaged target organs)

- organs)
 (ytoprotective agents
 (cardioprotective: protective effects of angiotensin
 II receptor antagonists on damaged target organs)
- Antihypertensives Brain, disease (protective effects of angiotensin II receptor antagonists on damaged target organs)

- L1 ANSWER 52 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1999:26515 Document No. 130:163577 AT1 receptors mediate angiotensin
 11 uptake and transport by bovine brain microvessel endothelial
 11 uptake and transport by bovine brain microvessel endothelial
 12 cells in primary culture. Rose. Jayna M.: Audus. Kenneth L. (Department
 of Pharmaceutical Chemistry. The University of Kansas. School of Pharmacy.
 Lawrence. KS. USA). Journal of Cardiovascular Pharmacology. 33(1). 30:3
 (English) 1999. COOEN: JCPCOT. ISSN: 0160-2446. Publisher: Lippincott
 Williams & Wilkins.
 AB The endothelial lining of the blood-brain barrier tightly controls the
 distribution of peptide hormones between the central nervous system and
- Williams & Wilkins.
 The endothelial lining of the blood-brain barrier tightly controls the distribution of peptide hormones between the central nervous system and the circulation. By using primary cultures of brain microvessel endothelial cells, an in vitro model of the blood-brain barrier, the authors report the uptake and transport of the octapeptide angiotensin II by a specific receptor population. With the angiotensin II and aponists losartan (AII specific) and PD 123.319 (AIZ specific), the authors showed that both the uptake and transport of angiotensin II were mediated by the AII receptor. Western blot anal. confirmed the existence of the AII receptor in the authors' cell-culture model. Rhodamine 123 studies also suggested that both angiotensin II antagonists, but not angiotensin II, were substrates for the P-glycoprotein efflux system, thus restricting the transport of these compds. These results suggest an AII receptor mediates uptake and transport of angiotensin II at the blood-brain barrier and may contribute to the regulation of cerebrovascular levels of the peptide.

contribute to the regulation of cerebrovascular levels of the peptide.

All receptors mediate angiotensin II uptake and transport by bovine brain microvessel endothelial cells in primary culture transport by bovine brain microvessel endothelial cells in primary culture the authors report the uptake and transport of the obtain barrier. The authors report the uptake and transport of the octapeptide angiotensin II and appoints losartam (ATI specific) and PD 123,319 (ATZ specific), the authors showed that both the uptake and transport of angiotensin II were mediated by the ATI receptor. Western blot anal. confirmed the existence of the ATI receptor in the authors' cell-culture model. Rhodamine 123 studies also suggested that both angiotensin II antagonists. But not angiotensin II. were substrates for the P-glycoprotein efflux system, thus restricting the transport of these compds. These results suggest an ATI receptor mediates uptake and transport of angiotensin II at the blood-brain barrier and may contribute to the regulation of cerebrovascular levels of the peptide.

AT1 receptor angiotensin II transport blood brain

Barrier
[ATI receptors mediate angiotensin II uptake and transport by bovine brain microvessel endothelial cells in primary

- L1 ANSWER 53 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1998:793244 Document No. 130:32608 Reseprine-diuretic combination in the treatment of hypertension. A review. Siepmann. Martin: Kirch. Wilhelm (Inst. Klinische Pharmakologie, Medizinische Fäk., TU Dresden. Dresden. D:01307. Germany). Medizinische klinik (Munich). 93(12), 733-737 (German) 1998. CODEN: MEKLA7. ISSN: 0723-5003. Publisher: Urban & Vogel GmbH.

 AB A review with 57 refs. is given on combinations of reseptine with diuretics in treatment of hypertension. In combination with a diuretic even low doses of reserpine lower blood pressure sufficiently. Nasal constipation is the most frequently reported adverse event. Cardiovascular and cerebrovascular morbidity and mortality are decreased by reserpine-diuretic combinations. Reserpine-diuretic combinations cost less than Ca antagonists. ACE inhibitors, and angiotensin II receptor antagonists.

 AB. . even low doses of reserpine lower blood pressure sufficiently. Nasal constipation is the most frequently reported adverse event. Cardiovascular and cerebrovascular morbidity and mortality are decreased by reserpine-diuretic combinations. Reserpine-diuretic combinations cost less than Ca antagonists. ACE inhibitors. and angiotensin II receptor antagonists.

Page 25

- L1 ANSWER 52 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 - culture) Angiotensin receptors

Anglorensin receptors
RL: BOC (Biological occurrence): BPR (Biological process): BSU (Biological study, unclassified): BIOL (Biological study): OCCU (Occurrence): PROC (Process)

(ATI: ATI receptors mediate anglotensin II uptake and transport by bovine brain microvessel endothelial cells in primary culture)

IT Blood vessel
 (microvessel. endothelium: ATI receptors mediate angiotensin
 II uptake and transport by bovine brain microvessel endothelial
 cells in primary culture)
IT Biological transport
 (uptake: ATI receptors mediate angiotensin II
 uptake and transport by bovine brain microvessel endothelial cells in
 primary culture)
IT 11128-99-7. Angiotensin-II
 RL: BPR (Biological process): BSU (Biological study, unclassified): BIOL
 (Biological study): PROC (Process)
 (ATI receptors mediate angiotensin II uptake and
 transport by bovine brain microvessel endothelial cells in primary
 culture)

L1 ANSWER 54 OF 123 CAPLUS COPYRIGHT 2003 ACS
1998:788746 Document No. 130:52406 Substituted biphenyl isoxazole
sulfonamides useful as endothelin antagonists. Murugesan. Natesan:
Barrish. Joel C.: Spergel. Steven H. (Bristol-Myers Squibb Co., USA).
U.S. US 5846990 A 19981208. 107 pp., Cont., in-part of U.S. Ser. No.
754.715. abandoned. (English). CODEN: USXXM1. APPLICATION: US
1997-799616 19970213. PRIORITY: US 1995-493331 19950724: US 1996-603975
19960220: US 1996-754715 19961121. Gī

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- Title compds. I inhibit the activity of endothelin (no data), and are useful as antihypertensives. etc. The symbols in I are defined as follows fone of X and Y = N, other = 0: J = 0. S. N. (un)substituted NH; K. L = N or C. provided that at least one is C: p = 0-2: Rl-R4 (bound to ring C atoms) = H. (un)substituted alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, cycl

Meninges

(subarachnoid hemorrhage, treatment: prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists)

- 1 ANSWER 55 OF 123 CAPLUS COPYRIGHT 2003 ACS
 998:726129 Document No. 130:90770 Responsiveness of human infant cerebral arteries to sympathetic nerve stimulation and vasoactive agents. Bevan. Rosemary: Dodge. John: Nichols, Patricia: Poseno. Tina: Yijayakumaran. Edathoot: Wellman. Terry: Bevan. John A. (Totman Laboratory for Cerebrovascular Research. Department of Pharmacology. College of Medicine. University of Vermont. Burlington, VT. 05405. USA). Pediatric Research. 44(5). 730-739 (English) 1998. CODEN: PREBL. ISSN: 0031-3998.

 Publisher: Lippincott Williams & Wilkins.
 Responses of segments of bastlar and middle cerebral arteries of eight human infants to activation of perivascular nerves and to vasoactive drugs were studied using a resistance artery myograph. The infants ages ranged from 23 wk of gestation to 34 postnatal days. Neurogenic vasoconstriction occurred in all segments and at 8 Hz was 12.7% of tissue max. and was blocked by phentolamine (10-6 M). There was no evidence of a reurogenic dilator response. Catecholamine histofluorescence was seen in nerves in the adventita at all ages studied. Norepinephrine EDSO was 7.6. times. 10-7 M. and its max. effect was 43.1% of tissue max. Both neural and norepinephrine responses were greater than those of the proximal parts of adult human middle cerebral arteries obtained postmortem and surgically removed adult human pial arteries. Electron microscopy demonstrated that neural d. at the adventitionedial junction in the infant vessels was greater than in the pial arteries. Electron microscopy demonstrated that neural d. at the adventitionedial junction in the infant vessels was greater than in the pial arteries. Constrictor responses to serotionin and prostaglandin F2.alpha. were minimal in the two infants of 23 and 24 wk of gestation but were clearly present in the older infants. Histamine and acetylcholine were potent vasodilators. Indomethacin potentiated agants-induced contraction. In a limited no. of trials angiotensin II. neuropeptide Y. caused contraction
- . 50-67-9. Serotonin. biological studies 51-41-2. Norepinephrine 51-45-6. Histamine. biological studies 51-84-3. Acetylcholine. biological studies 58-82-2. Bradykinin 551-11-1. PGF2.alpha.
- ANSWER 56 OF 123 CAPLUS COPYRIGHT 2003 ACS 38:633223 Document No. 130:33061 The valsartan antihypertensive long-term use evaluation (VALUE) trial of cardiovascular events in hypertension. Water and deciren. Division of Hypertension. University of Michigan Medicine. Division of Hypertension. University of Michigan Medical Center. Ann Arbor. MI. 48109-0356. USA). Blood Pressure. 7(3). 176-183 (English) 1998. COENS: BLPREG. ISSN: 08007-7051. Publisher: Scandinavian University Press. Essential hypertension is a major Public Health issue. Although the no. of treated hypertensive patients has increased. Only 25k of treated patients have their blood pressure levels under control. The benefit of treating hypertension has been proven, but cardiovascular morbidity and mortality rates remain high. The ideal antihypertensive drug should not only normalize blood pressure levels. but also reduce the associ. cardiovascular morbidity and mortality rates. The role of angiotensin II in systemic hypertension and its complications has been recently redefined. The potent trophic effects of angiotensin II on blood vessels and on cardiac cells have been well demonstrated. esp. the role of angiotensin II in left ventricular hypertrophy. vascular hypertrophy. endothelial dysfunction. and congestive heart failure. Of all ongoing mortality and morbidity trials in systemic hypertension. VALUE (Valsartan Antihypertensive Long-term Use Evaluation) is the only one comparing an angiotensin II antagonist (valsartan) with a third-generation calcium channel blocker (amlodipine). A review with 55 refs. The main hypothesis of the VAUE trial is that, for an equiv. decrease in blood pressure. valsartan will be more effective than amlodipine in decreasing cardiac mortality and morbidity. VALUE is a prospective, multinational, multicenter, double-blind, randomized, active-controlled, 2-am parallel group comparison with a response-dependent does titrin. scheme. VALUE involves 14 400 patients in over 30 countries, who will be followed for 4 yr or until

- L1 ANSWER 55 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) 11128-99-7. Angiotensin-II 82785-45-3. Neuropeptide
 - Y
 RL: BAC (Biological activity or effector. except adverse): BSU (Biological study, unclassified): BIOL (Biological study)
 (human infant cerebral artery responsiveness to sympathetic nerve stimulation and vasoactive agents)

L1 ANSWER 56 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
II in left ventricular hypertrophy, vascular hypertrophy, endothehial dysfunction, and congestive heart failure. Of all ongoing nortality and morbidity trials in systemic hypertension. VALUE (Valsartan Antihypertensive Long-term Use Evaluation) is the only one comparing an angiotensin II antagonist (valsartan) with a third-generation calcium channel blocker (amlodipine). A review with 55 refs. The main hypothesis of the VALUE. ventricular hypertrophy. proteinuria, and high serum creatinine. Disease factors include documented history of myocardial infarction, peripheral vascular disease, stroke or transient ischemic attack, or the presence of left ventricular hypertrophy with strain on the ECG. A unique feature of VALUE is the assessment.

- L1 ANSWER 57 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1998:323144 Document No. 129:12752 Treating Alzheimer's disease with folate.
 vitamin B12, organic nitrates, and ACE inhibitors or angiotensin
 II antagonists. Saith, Anthony David: Jobst. Kim Anthony
 (Bristol-Myers Squibb Co., USA). PCT Int. Appl. NO 9819690 Al 19980514.
 48 pp. DESIGNATED STATES: W. AL, AM, AT, AN, AZ, BB, BG, BR, BY, CA, CH, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LW, DL, MG, MK, NM, MM, KX, NO, NZ, PL, PT, RO, RU, SO, SE, SG, SI, SV, TJ, TH, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, ND, RU, TJ, TM; RW; AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, KC, ML, MR, NE, NL, PT, SE, SN, TD, TG.
 (English). CODEN: PIXXD2. APPLICATION: WO 1997-US20021 19971104.
 PRIORITY: US 1996-30642 19961106.
 AA method is provided for treating occlusive vascular disease or
 Alzheimer's disease. wherein the patient has at least moderately elevated
 blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of noncoysteine and at least moderately in a folate or a deriv. thereof, and optionally vitamin Bl2, and optionally
 an org. nitrate such as isosorbide monomitrate or dinitrate, or an ACE
 inhibitor or an angiotensin II antagonist, or a NEP/ACE inhibitor or a combination of two or more of the above.

 TI Treating Alzheimer's disease with folate, vitamin Bl2, organic nitrates,
 and ACE inhibitors or a angiotensin II antagonists, or a NEP/ACE inhibitor or a
 angiotensin II antagonist, or a NEP/ACE inhibitor or an
 angiotensin II antagonist, or a NEP/ACE inhibitor or an
 angiotensin II antagonist, or a NEP/ACE inhibitor or an
 angiotensin II antagonist, or a NEP/ACE inhibitor or an
 angiotensin II antagonist, or a NEP/ACE inhibitor or an
 angiotensin II antagonist, or a NEP/ACE inhibitor or an
 angiotensin II antagonist, or a NEP/ACE inhibitor or a
 combi

- combination of two or more of the above.
 Brain, disease
 (cerebrovascular, occlusive; treating Alzheimer's disease
 with folate, vitamin B12. org. nitrates, and ACE inhibitors or
 angiotensin II antagonists)
- IT rve (degeneration: treating Alzheimer's disease with folate, vitamin B12, org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- Mental disorder (dementia, multi-infarct; treating Alzheimer's disease with folate, vitamin 812, org. nitrates, and ACE inhibitors or angiotensin IT II antagonists)
 Mental disorder
- (dementia, vascular, Binswanger's disease; treating Alzheimer's disease with folde, vitamin BI2. org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- (dementia, vascular; treating Alzheimer's disease with folate, vitamin Bl2, org, nitrates, and ACE inhibitors or angiotensin II antagonists) IT Mental disorder
- IT Brain
- ANSWER 57 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

 55-63-0. Nitroglycerin 58-05-9. Leucovorin 87-33-2. Isosorbide
 dinitrate 107-43-7. Betaine 134-35-0 135-16-0 2800-34-2.
 10-Fomyltetrahydrofolate 3432-99-3 4033-27-6 8059-24-3. Vitamin b6
 10360-12-0 16051-77-7. Isosorbide mononitrate 62571-86-2. Captopril
 72973-85-4 75847-73-3. Enalapril 76547-98-3. Lisinopril 8033-42-8.
 Fentiapril 8441-61-8. Quinapril 86541-75-5. Benazepril 87333-19-5.
 18anipril 88048-97-6. Fosinopril 103775-10-6. Moexipril 14798-26-4.
 Losartan 138402-11-6. Irbesartan
 RI: BAC (Biological activity or effector, except adverse): BSU (Biological study): USES (USes)
 - (treating Alzheimer's disease with folate, vitamin B12, org. nitrates. and ACE inhibitors or **angiotensin II** antagonists)

- L1 ANSWER 57 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 (homocysteine in: treating Alzheimen's disease with folate, vitamin
 812. org. nitrates, and ACE inhibitors or angiotensin
 11 antagonists)

 L1 Antenue disease
- IT Artery, disease (intermittent claudication: treating Alzheimer's disease with folate. vitamin B12, org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- (ischemia, transient: treating Alzheimer's disease with folate, vitamin BIZ, org. nitrates, and ACE inhibitors or angiotensin II antagonists) IT Brain, disease
- IT Brain. disease (ischemia; treating Alzheimer's disease with folate, vitamin B12, org. nitrates, and ACE inhibitors or angiotensin II ant agonists)
- antagonists)
 Mental disorder
 (Senile psychosis: treating Alzheimer's disease with folate. vitamin
 Bl2. org. nitrates, and ACE inhibitors or angiotensin
 II antagonists)
 Brain. disease
 (stroke: treating Alzheimer's disease with folate. vitamin Bl2. org.
 nitrates. and ACE inhibitors or angiotensin II
 antagonists)
- nitrates. and ACE inhibitors or angiotensin II
 antagonists)

 IT Alzheimer's disease
 (treating Alzheimer's disease with folate. vitamin B12, org. nitrates.
 and ACE inhibitors or angiotensin II antagonists)

 IT 6027-13-0. Homocysteine
 RL: BSU (Biological study. unclassified); BIOL (Biological study)
 (antagonists: treating Alzheimer's disease with folate. vitamin B12,
 org. nitrates. and ACE inhibitors or angiotensin II
 antagonists)
- org. nitrates. and ACE inhibitors or antagonists)

 IT 10102-43-9. Nitric oxide, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (donors: treating Alzheimer's disease with folate, vitamin B12, org.
 nitrates. and ACE inhibitors or angiotensin II
- antagonists)

 17 59-30-3. Folic acid, biological studies 68-19-9. Vitamin bl2
 RL: BRC (Biological activity or effector. except adverse): BOC (Biological occurrence): BBU (Biological study. unclassified): THU (Therapeutic use):
 BIOL (Biological study): OCCU (Occurrence): USES (Uses)
 (treating Alzheimer's disease with folate. vitamin B12. org. nitrates.
 and ACE inhibitors or angiotensin II antagonists)
- L1 ANSWER 58 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1998:121175 Document No. 128:269079 Constrictor responses of the rat basilar artery during diabetes mellitus. Mayhan. William G. (Department of Physiology and Biophysics, University of Nebraska Medical Center, Omaha. NE. 68198-4575. LASA). Brain Research. 783(2), 226-331 (English) 1998. CODEN: BRREAP. ISSN: 0006-8993. Publisher: Elsevier Science B.V..
 AB Diabetes mellitus produces abnormalities of the endothelium and impairs endothelium-dependent dilatation of large and small cerebral blood vessels. However, the effect of diabetes mellitus on cerebral vasoconstriction and the modulatory influence of mitric oxide on cerebral vasoconstriction and the modulatory influence of mitric oxide on cerebral vasoconstriction and the modulatory influence of mitric oxide on cerebral vasoconstriction and the modulatory influence of mitric oxide on cerebral vasoconstriction and the modulatory influence of mitric oxide on cerebral vasoconstriction and the modulating constrictor responses of the basilar artery in vivo. The authors' second goal was to examine a potential role for nitric oxide in modulating constrictor responses of the basilar artery. The diam. of the basilar artery was measured using intravital microscopy in nondiabetic and diabetic (3-4 mo after injection of streptozotocin: 50-60 mg/kg i.p.) rats in response to angiotensin II. arginine vasopressin. endothelin-1. and the thromboxane analog. U-46619. Topical application of angiotensin II (10 and 100 mM) produced only minimal changes in diam. of the basilar artery which were similar in nondiabetic and diabetic rats. Arginine vasopressin (0.1 and 1.0 mM). endothelin-1 (10 and 50 mM), and U-46619 (10 and 100 mM) produced marked dose-related constriction of the basilar artery which was similar in both nondiabetic and diabetic rats. Next. whether the symthesis/release of nitric oxide played a role in constriction of the basilar artery in response to the agonists was examd. L-NMMA (1.0 mm.M) did not alter constrictor respons
 - pathogenesis of cerebrovascular abnormalities assocd. with diabetes mellitus.

 using intravital microscopy in nondiabetic and diabetic (3-4 mo active injection of streptozotocin: 50-60 mg/kg i.p.) rats in response to angiotensin II, arginine vasopressin, endothelin-1, and the thromboxane analog. U-46619. Topical application of angiotensin II (10 and 100 nM) produced only minimal changes in diam, of the basilar artery which were similar in nondiabetic and. diabetes mellitus. In addn., the synthesis/release of nitric oxide probably does not modulates constrictor responses of the basilar artery to angiotensin II. arginine vasopressin. endothelin-1 and U-46619. Preservation of vasoconstrictor responses, coupled with impaired vasodilator responses, may contribute to the pathogenesis of cerebrovascular abnormalities assocd, with diabetes mellitus.
 - diabetes mellitus.
 113-79-1. Arginine vasopressin
 II 123626-67-5. Endothelin-1

- ANSWER 59 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) and calcitonin gene-related peptide assoc. with cerebral infarction)

ANSWER 58 0F 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study)
conclassified): BIOL (Biological study)
(modulating role of nitric oxide in cerebral vasoconstriction in health

and diabetes mellitus)

infarction)
Diabetes mellitus
Hypertension
(plasma endothelin, aldosterone, renin-angiotensin system and
calcitorin gene-related peptide assoc, with cerebral
infarction)
52-39-1. Aldosterone
11128-99-7. Angiotensin II
83652-28-2. Calcitonin gene related peptide
RL: ADV (Adverse effect, including toxicity); BIO. (Biological study)
(plasma endothelin, aldosterone, renin-angiotensin system and
calcitonin gene-related peptide assoc, with cerebral
infarction) infarction)

Page 28

L1 ANSWER 59 OF 123 CAPLUS COPYRIGHT 2003 ACS 1998:99809 Document No. 128:203768 Serial observation of plasma endothelin RAS renin-angiotensin system and calcitonin gene-related peptide with cerebral infarction. Zhou, Wu; Yu, Burun (Department of Neurology, The Affiliated Tongji Mospital. Tongji Medical University, Wuhan. 430030. Peop. Rep. China). Tongji Yike Daxue Xuebao. 26(3). 195-198 (Chinese) 1997. CODEN: TYDXEP. ISSN: 0258-2090. Publisher: Tongii Yike Daxue.

Neurology. The Affiliated Tongji Hospital. Tongji Medical University.
Nuhan, 430030. Peop. Rep. China). Tongji Yike Daxue Xuebao. 26(3).
195-198 (Chinese) 1997. COCEN: TYDXEP. ISSN: U258-2090. Publisher:
Tongji Yike Daxue.
The relation of crebral infarction (CI) and its
complications with plasma endothelins (P-ET). angiotensin
II (p-A II). aldosterone (P-ALD) and calcitonin gene-related
peptide (CGRP) were studied. 40 Patients with CI were divided into 3
groups: cerebral infarction group. atheroscierosis
group and normal controls. P-ET. P-A II. P-ALD and P-CGRP levels of CI
patients were detd. on 3rd day, 10-14th days and 25-28th days after onset.
also for atherosclerosis patients and normal controls. The P-ET. p-A II
and P-ALD levels of CI patients in total process were higher than those of
the normal controls. but the P- CGRP levels of CI patients in total
process were higher than those of the normal controls. but the P-CGRP
levels were lower. The P-ET and P-A II levels of CI patients with
hypertension were higher than those without hypertension, but the P-CGRP
levels were lower. The P-ET. P-A II levels of CI patients with diabetes
were higher than those without diabetes. The P-ET. P-A II and P-CGRP
levels were higher than those in light and moderate states. The results
suggests that (I) cerebral infarction is correlated with
P-ET. P-A II and P-CGRP, (3) diabetes. The P-ET, P-A II and P-CGRP
levels on 3rd day after onset of CI patients in serious state of the
illness were higher than those in light and moderate states. The results
suggests that (1) cerebral infarction is correlated with F-ET. P-A II and P-CGRP. (3) diabetes is correlated with ET and A II. and
(4) in patients on 3rd day after onset the P-ET. P-A II and P-CGRP levels
can roughly reflect the state of the illness.
Serial observation of plasma endothelin RAS renin-angiotensin system and
calcitonin gene-related peptide with cerebral infarction
II (p-A II). aldosterone (P-ALD) and calcitonin gene-related
peptide (CGRP) were studied. 40 Patients with

Pr-CGRP. (3). endothelin angiotensin II aldosterone cerebral infarction; calcitonin gene related peptide cerebral

infarction
IT Brain, disease
(infarction: plasma endothelin. aldosterone, renin-angiotensin system

L1 ANSWER 60 OF 123 CAPLUS COPYRIGHT 2003 ACS 1998:98022 Document No. 128:167435 Preparation of heterocyclyl-substituted biphenylsulfonamide as endothelin antagonists. Murugesan, Natesan: Barrish, Joel C.: Stein, Philip D. (Bristol-Myers Squibb Company, USA). PCT Int. Appl. NO 9804260 Al 19980205. 85 pp. DESIGNATED STATES: W. AL. AM, AT. AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LY, MD, MG, KK, NM, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TH, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW, AT, BE, BF, BJ, CF, CG, CH, CI, CH, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXOZ.

Compds. of formula (I: RI and R2 are directly bonded to a ring carbon and are each independently hydrogen. alkyl or alkoxy, hydroxyl, halo, or amino: one of X and Y is N and the other is O: R3 and R4 are each directly bonded to a ring carbon and are each independently hydrogen. alkyl. alkeyl, alkynyl. alkoxy, cycloalkyl, cycloalkylalkyl, cycloalkylalkyl, cycloalkylalkyl, cycloalkeylalkyl, cycloalkylalkyl. cycloalkylalkyl. eycloalkeylalkyl. eycloalkeylalkyl. eycloalkeylalkyl. eycloalkylalkyl. eycloalkeylalkyl. avyl. aryl aryl be alkylene or alkeylene. either of which may be substituted, completing a 4- to 8-membered satd. unsatd. or arom. ring together with the carbon atoms to which they are attached; RII - RI4 are each independently are hydrogen alkyl, alkeyl. alkeyl. alkeyl. aryl. cycloalkylalkyl. cycloalkeylalkyl. aryl. aryloxy. aralkyl. aralkoxy. or heterocyclyl, any of which may be substituted. halo. OH. cyano. NO2. CHO. CO2H. etc.; J. K. L. T. and U are each independently N or C. provided that at least one is N. and at most two are N: and when only one of J. K. L. T. and U is N. the

L1 ANSWER 60 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

N may be substituted with 0- so that N-oxide is formed), which inhibit the activity of endothelin roo data), are prepol. Also claimed is a method for treating endothelin-related disorders in a mammal, such as (1) hypertension, (2) pulmonary hypertension, (3) renal, glomerular, or mesangial cell disorders, (4) endotoxemia, (5) ischemia. (6) atherosclerosis. (7) restenosis. (8) subarachmoid hemorrhage. (9) prostatic hypertrophy, and (10) congestive heart failure, and a method for inhibiting cell growth. Said compd. I is used in combination with at least one angiotensin II receptor antagomist, renin inhibitor, ampiotensin converting enzyme (ACE) inhibitor or a dual neutral endopeptidase-ACE inhibitor for treating the endothelin-related disorders comprises said compd. optionally in combination with at least one angiotensin II receptor antagomist, renin inhibitor, angiotensin converting enzyme (ACE) inhibitor, or a dual neutral endopeptidase-ACE inhibitor. (ACE) inhibitor, or a dual neutral endopeptidase-ACE inhibitor. Thus. 2-(4-bromophery))pyrimidine is coupled with 2-borono-H-(3,4-dimethyl-5-isoxazolyl)-N-((2-methoxyethoxylmethyl) benzenesul fonamide in the presence of (Phg)P4d in a mixt. of toluene. 2 M ac. Na2CO3, and 958 ethanol under reflux for 1.5 h to give the title compd. N-isoxazolylpyrimidinylbiphenyl sulfonamide (11).

reflux for 1.5 h to give the title compd. N-isoxazolylpyrimidinylbiphenyl sulfonamide (II).

. hypertension. (2) pulmonary hypertension. (3) renal. glomerular. or mesangial cell disorders. (4) endotoxenia. (5) ischemia. (6) atherosclerosis. (7) restenosis. (8) subarachnoid hemorrhage. (9) prostatic hypertrophy. and (10) congestive heart failure, and a method for inhibiting cell growth. Said compd. I is used in combination with at least one angiotensin II receptor antagonist. renin inhibitor. angiotensin converting enzyme (ACE) inhibitor. or a dual neutral endopeptidase-ACE inhibitor for treating the endothelin-related disorders. A pharmaceutical compn. for the treating the endothelin-related disorders comprises said compd. optionally in combination with at least one angiotensin II receptor antagonist. renin inhibitor. angiotensin converting enzyme (ACE) inhibitor. or a dual neutral endopeptidase-ACE inhibitor. Thus. 2: (4-bromophenyl)pyrimidine is coupled with.

. disorder treatment isoxazolylbiphenylsul fonamide: mesangial cell disorder treatment isoxazolylbiphenylsul fonamide: ischemia treatment isoxazolylbiphenylsul fonamide: restenosis treatment isoxazolylbiphenylsul fonamide: restenosis treatment isoxazolylbiphenylsul fonamide: entenosclenosis treatment isoxazolylbiphenylsul fonamide: entenosclenosis treatment isoxazolylbiphenylsul fonamide: congestive heart failure treatment isoxazolylbiphenylsul fonamide: congest

ANSWER 61 OF 123 CAPLUS COPYRIGHT 2003 ACS
8:91962 Document No. 128:213005 Mineralocorticoid blockade reduces
vascular injury in stroke-prone hypertensive rats. Rocha. Ricardo:
Chander. Praveen N.: Khanna. Kavita: Zuckerman. Andrea: Stirer. Charles T.
Jr. (Dept. of Pharmacology. New York Medical College. Valhalla. NY. 10595.
USA). Hypertension. 31(1. Pt. 2). 451-458 (English) 1998. CODEN: HPRIDN.
ISSN: 0194-911X. Publisher: Williams & Witkins.
Chronic treatment of saline-orinking stroke-prone spontaneously
hypertensive rats (SHRSP) with agents that interfere with the formation or
actions of angiotensin II prevents the development of
stroke and renal vascular danage. Angiotensin II. in
addn. to its direct vascular effects. stimulates the synthesis and release
of aldosterone. To assess the role of aldosterone in the development of
pathol. changes in these rats. time-release pellets contg. 200 mg of the
mineralocorticoid receptor antagonist. spironolactone. were implanted into
14 SHRSP at 7.5 wk of age. Over the period of study (3-4 wk), systolic
blood pressure was not different between implanted and control groups.
Spironolactone did not enhance water and electrolyte excretion. All
placebo-treated SHRSP, urinary protein excretion (UPC) averaged
39 mg/day. In a 2nd study to assess effects on survival. 6 SHRSP received
spironolactone-treated SHRSP remained asymptomatic through 19 wk of age.
At 16 wk of age. spironolactone-treated SHRSP were severely hypertensive
(247 mm Hg). yet UPE remained a baseline levels. In contrast.
preterminal UPE averaged 136 mg/day in control rats. In both studies,
histopathol. exam. revealed a marked protective effect of spironolactone
against the development of malignant nephrosclerotic and
cerebrovascular lesions. These observations indicate a vascular
and end-organ protective effect of spironolactone in the absence of
lowered blood pressure in saline-drinking SHRSP and are consistent with a
major role for anteralocorticoids as hormonal mediators of vascular
injury.
Chronic treatment o

injury.

Chronic treatment of saline-drinking stroke-prone spontaneously hypertensive rats (SHRSP) with agents that interfere with the formation or actions of angiotensin II prevents the development of stroke and renal vascular damage. Angiotensin II. in addn. to its direct vascular effects. stimulates the synthesis and release of aldosterone. To assess the role of aldosterone. To assess the role of aldosterone. The sasses the role of aldosterone. The sasses the role of aldosterone of a stroke and the studies histopathol. examn. revealed a marked protective effect of spironolactone against the development of malignant nephrosclerotic and cerebrovascular lesions. These observations indicate a vascular and end-organ protective effect of spironolactone in the absence of lowered blood pressure in.

L1 ANSWER 60 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) biphenylsulfonamide as endothelin antagonists for treating endothelin-related disorders)

inges (subarachnoid hemorrhage: prepn. of heterocyclyl-substituted biphenylsulfonamide as endothelin antagonists for treating endothelin-related disorders)

ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS
7:684304 Document No. 127:351205 Pharmaceutical compositions containing angiotensin II antagonists and additional agents for treatment of angiotensin II-mediated diseases.

Tamura, Norikazu: Sohda. Takashi; Ikeda. Hitoshi (Takeda Chemical Industries. Ltd., Japan; Tamura, Norikazu: Sohda. Takashi; Ikeda. Hitoshi). PCT Int. Appl. NO 937688 A2 19971016. 61 pp. DESIGNATED STATES: N: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LY, MD, NG, MK, NN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, RR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RS; AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, CS, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, (English). CODEN: PIXXD2. APPLICATION: WO 1997-JP1149 19970403. PRIORITY: JP 1996-83917 19604045.

To provide a pharmaceutical Compn. which performs a remarkable effect with a relatively decreased dosage and with less side effects, a pharmaceutical compn. was formulated by combination of an angiotensin II-mediated compd. or a salt thereof with at least one species of a compd. having the activity of improving postprandial hyperglycemta in diabetes mellitus. an indane deriv. having the activity of intribiting HMG-Co A reductase or salts thereof. A capsule for treatment of arteriosclerosis was formulated contg. 2-ethoxy-I-[[2]-(II-tetrazol-5-y)1bitphenyl-4-yl]-methyl]-Hb-bezinidazol-7-carboxylic acid I. 5-[4-[-2-(5-ethyl-2-pyridyl)ethoxy]benzyl]-2-4-thiazolidinedione 30. lactose 69, microcryst. cellulose 70. and Mg stearate 10 mg. Pharmaceutical compositions containing angiotensin II entagonists and additional agents for treatment of angiotensin II-mediated diseases

. effect with a relatively decreased dosage and with less side effects. a pharmaceutical compo. has formulated by combination of an angiotensin II-mediated compd. or a salt thereof with at least one species of a compd. having the activity of increasing insulin sensitivity.

sensitivity.
Heart. disease
(angina pectoris: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)

Angiotensin receptor antagonists
(angiotensin II; pharmaceutical compns. contg.
angiotensin II antagonists and addnl. agents for
treatment of angiotensin II-mediated diseases)

treatment of angiotensin II-mediated diseases)
Drug delivery systems
(capsules: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
Schizmbrania

nizopirenia (catatonia: pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)

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L1 ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(central, disease: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
                        in, disease
(cerebrovascular; pharmaceutical compns. contg.
angiotensin II antagonists and addnl. agents for
treatment of angiotensin II-mediated diseases)
                         (coronary, angioplasty, obstruction after: pharmaceutical compns. contg. angiotensin II antagonists and addml. agents for treatment of angiotensin II-mediated diseases)
                Artery
  IT
              Artery
                Artery
(coronary, bypass surgery, vascular reobstruction after; pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II
            -mediated diseases)
Mental disorder
(depression: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
Kidney 400220
             Kidney, disease
                          uney, unsease
(diabetic nephropathy; pharmaceutical compns. contg.
angiotensin II antagonists and addnl. agents for
treatment of angiotensin II-mediated diseases)
                 Heart, disease
                  Kidney, disease
Organ, animal
                  Organ, animal
                           gan, animal
(failure: pharmaceutical compns. contg. angiotensin
II antagorists and addnl. agents for treatment of
angiotensin II-mediated diseases)
    IT Kidney, disease
(glomerulonephritis; pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
    angiotensin II-mediated diseases)

IT Kidney. disease
(glomerulosclerosis: pharmaceutical compns. contq. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)

IT Lipids. biological studies
RL: ADV (Adverse effect. including toxicity): BIOL (Biological study)
(hyperlipidemia: pharmaceutical compns. contq. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)

IT Blood vessel. disease
                                                                                                                                                               (Continued)
       L1
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.1 ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
    II antagonists and addn1. agents for treatment of angiotensin II-mediated diseases)

IT Mental disorder (senile psychosis: pharmaceutical compns. contg. angiotensin II antagonists and addn1. agents for treatment of angiotensin II-mediated diseases)

Drug delivery systems (tablets; pharmaceutical compns. contg. angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II post according to the seases)

IT 9015-82-1. Angiotensin-converting enzyme 9028-35-7. HMG-CoA reductase RL: BSU (Biological study. unclassified): BIOL (Biological study) (inhibitor: pharmaceutical compns. contg. angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of study. unclassified): ITHU (Therapeutic use): BIOL (Biological study): USES (Uses)

(Uses) (pharmaceutical compns. contg. angiotensin II antagonists and addn1. agents for treatment of angiotensin II mediated diseases)

IT 1128-99-7, Angiotensin II RL: BSU (Biological study) (pharmaceutical compns. contg. angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II antagonists and addn1. agents for treatment of angiotensin II-mediated diseases)
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L1 ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(hypertrophy: pharmaceutical compns. contg. angiotensin
11 antagonists and addhn. agents for treatment of
angiotensin II-mediated diseases)

11 Heart. disease
(infarction: pharmaceutical compns. contg. angiotensin
II antagonists and addhnl. agents for treatment of
angiotensin II-mediated diseases)

11 Drug delivery systems
(injections: pharmaceutical compns. contg. angiotensin
II antagonists and addhnl. agents for treatment of
angiotensin II-mediated diseases)

12 Vein
(insufficiency: pharmaceutical compns. contg. angiotensin
II antagonists and addhnl. agents for treatment of
angiotensin II-mediated diseases)

13 Heart. disease
(ischemia: pharmaceutical compns. contg. angiotensin
II antagonists and addhnl. agents for treatment of
angiotensin II-mediated diseases)

14 Kidney, disease
(nephritis: pharmaceutical compns. contg. angiotensin
II antagonists and addhnl. agents for treatment of
angiotensin II-mediated diseases)

15 Mental disorder
(neurosis: pharmaceutical compns. contg. angiotensin
II antagonists and addhnl. agents for treatment of
angiotensin II-mediated diseases)

16 Aldosteronism
Alzheimer's disease
Annesia
Aneurysm
Antihabetic agents
Antihypertensives
Anxiolytics
Glaucoma (disease)
Ischemia
(pharmaceutical compns. contg. angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II-mediated diseases)

17 Memory, biological
(retention defect: pharmaceutical compns. contg. angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II mediated diseases)

18 Memory, biological
(retention defect: pharmaceutical compns. contg. angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II antagonists and addhl. agents for treatment of angiotensin
II antagonists
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11 ANSWER 63 OF 123 CAPLUS COPYRIGHT 2003 ACS
1997:568440 Document No. 127:229432 Preventive effect of igantifipine on renal and cerebral injuries in salt-induced hypertension. Shirahase. Hiroaki: Wada. Katsuo: Uehara: Yoshio: Nakamura. Shohei: Ichikawa. Atsuko (Research Laboratories. Kyoto Pharmaceutical Industries. Ltd.. Kyoto. 604. Japan). American Journal of Hypertension. 10(8). 899-878 (English) 1997. COOD: ALHYEG. ISSN: 0985-7061. Publisher: Elsevier.

AB Igantidipine. a new water-sol. calcium antagonist, was administered at a nonhypotensive dose (NHD) of 1.0 amg/kg/day and a sustained-hypotensive dose (SHD) of 3.0 mg/kg/day to Dahl salt-sensitive (Dahl-S) rats fed a high-salt diet for 8 wk. The effects on survival. and on renal and cerebral injuries, were then examd. Igantidipine completely prevented hypertensive death at the SHD and tended to increase the survival at the NHD and HHD. Igantidipine reduced glomerulosclerosis and renal arterial and tubular injuries in a dose-dependent manner. Igantidipine at the SHD. but not NHD on MHD. improved plasma creatinine, serum urea nitrogen, and glomerular filtration rate. Igantidipine at all doses examd. increased the urinary prostaglandin (RG) 12 and PGEZ. but not RGF2.alpha. or thromboxane B2, and decreased plasma angiotensin II (All) level and renin activity. The renal glomerular, tubular, and arterial injuries were significantly correlated with blood pressure (r = 0.56 to 0.80) and plasma AII level (r = 0.56 to 0.71) but not with urinary prostaglandin (rG) 12 and RGEZ (but not RGF2.alpha. or thromboxane B2 and decreased infrarction. The infarction area was slightly and significantly correlated with urinary RGIZ (r = 0.42) and RGEZ (r = 0.41) but not with blood pressure or plasma AII. In conclusion, igantidpine prevented renal and cerebral injuries in Dahl-S rats. In addn. to the reduced blood pressure. the redn. of plasma AII and the increase of vasodilatory prostanoids may also partially contribute to the renal and cerebral protective effects of igantidpine

421-434 (English) 1997. CODEN: DRAGE6. ISSN: 1170-229X. Publisher: Adis.

A review with 65 refs. Raised blood pressure in the elderly is not a normal consequences of aging, but is a major risk factor for cardiovascular disease. Cardiac and cerebrovascular disease account for >50% of deaths among people aged >55 yr. Because the percentage of elderly people in most populations is rising. blood pressure control in this group is becoming increasingly important. Several large control in this group is becoming increasingly important. Several large intervention studies in the elderly have demonstrated that antihypertensive medication reduces cardiovascular morbidity and mortality. In addn. the abs. benefits of blood pressure redn. are higher in elderly compared with younger patients. ACE inhibitors are effective and well tolerated in the treatment of hypertension in the elderly. Their success led to interest in alternative ways of blocking the renin angiotensin system, and the subsequent development of angiotensin II (AII) receptor antagonists. Losartan was the first drug in this class to become com, available. Since then, valsartan has been launched in some markets and others are likely to be launched in the near future. Losartan is effective in the treatment of essential hypertension and has a low incidence of adverse effects. First-dose hypotension is very uncommon and, at the present time, cough does not appear to be an adverse effect of these drugs, although long term tolerability studies are needed to confirm this. Angioedema, a rare but life-threatening adverse effect of ACE inhibitors, has also been assocd, with losartan. Current data suggest that AII receptor antagonists are likely to be used in hypertensive patients. Although further data are needed to confirm these findings. At present.

All receptor antagonists are likely to be used in hypertensive patients. Angiotensin II receptor antagonists potential in elderly patients with cardiovascular disease. Cardiac and cerebrovascular disease account for >50% of

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L1 ANSWER 64 OF 123 CAPLUS COPYRIGHT 2003 ACS 1997:557640 Document No. 127:248103 Substituted biphenyl isoxazole suffonamides useful as endothelin antagonists. Hurugesan. Natesan: Barrish. Joel C.: Spergel. Steven H. (Bristol-Myers Squibb Company. USA). PCT Int. Appl. NO 9729748 Al 19970821. 325 pp. DESIGNATED STATES: W: AL. AM, AT. AU. AZ. BB. BG. BR. BY. CA. CH. CN. CZ. DE. DK. EE. ES. FI. GB. GE. HU. IL. IS. JP. KE. KG. KP. KR. KZ. LK. LR. LS. LT. LU, LY. MO. MG. KX. HN. MM. MK. NO. NZ. PL. PT. RO. RU. SO. SE. SG. SI. SK. TJ. TM. TR. TT. UA. UG. UZ. VN. AM. AZ. BY. KG. KZ. ND. RU. TJ. TM: RN: AT. BE. BT. LB. CF. CG. CH. CI. CM. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NE. NL. PT. SE. SN. TD. TG. (English). COOCH: PIXXDZ. APPLICATION: WO 1997-US3956 19970220. PRIORITY: US 1996-603975 19960220; US 1996-754715 19961121; US 1997-799616 19970213.

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

*STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. 1 inhibit the activity of endothelin (no data), and are useful as antihypertensives, etc. The symbols in I are defined as follows [one of X and Y = N. other = 0: J = 0. S. N. (un)substituted MH; K. L = N or C. provided that at least one is C: p = 0.2: R1-R4 (bound to ring C atoms) = H. (un)substituted alkyl, alkenyl, alkynyl, alkoxy, cycloalkenyl, cycloalkenyl, cycloalkenylalkyl, aryl, aryloxy, aralkyl, aralkoxy, halo. OH, cyano, MOZ. CHO. etc.: or R3R4 = (un)substituted alkylene or alkenylene: R5-R8 = groups similar to R1-R4, plus heterocyclyl, heterocyclyloxy, and others]. Over 280 synthetic examples are given. For instance, the MEM-protected, isoxazole-contg, bromide II [R = Br] was lithiated, treated with B(OPT-iso)3, and hydrolyzed to give 82% II (R = B(OH)2]. The latter was coupled with 2:(4-bromophenyl)oxazole using Pd(PPh3)4 catalyst (70%), followed by acidic deprotection of the MEM group (52%), to give title compd. III.

Angiotensin receptor antagonists (angiotensin II, compn. addnl. contg.: prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists)

Meminges

inges (subarachnoid hemorrhage, treatment; prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists)

L1 ANSWER 65 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

Hypertension
(angiotensin II receptor antagonists for elderly patients with cardiovascular disease)

patients with cardiovascular disease.
Angiotensin receptor antagonists
(angiotensin II: angiotensin II
receptor antagonists for elderly patients with cardiovascular disease)

IT Aging, animal
(elderly; angiotensin II receptor antagonists for
elderly patients with cardiovascular disease)

L1 ANSHER 66 OF 123 CAPLUS COPYRIGHT 2003 ACS
1997:405439 Document No. 127:39817 Pharmaceutical compositions containing
imidazopyridines as angiotensin II antagonists.
Sekine. Yasuo: Kawanishi. Eiki: Narita. Hiroshi: Hashimoto. Yoshihiro:
Mizobe. Masakazu (Tranabe Seryaku Co.. Ltd., Japan). Jpn. Kokai Tokkyo
Koho JP 09110691 A2 19970428 Heisel. 7 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1995-267560 19951017.

CO2CH2OCO2CHR3R4

Pharmaceutical compns., useful for treatment and/or prevention of hypertension, nephritis, diabetic nephritis, primary aldosteronemia, atherosclerosis, dementia, cerebral circulation disorder, chronic heart failure, and angina pectoris, contain imidazopyridines [(R], R3, R4 = lower alkyl; R2 = lower alkanoyl; R34 may form C3-6 alkylene) or their pharmacol, acceptable salts as active ingredients. I are easily absorbed by digestive tract and converted into active forms. I (R1 = Pr, R2 = Ac, R3 = R4 = Et) HCl salt (II) at 0.3 mg/kg i.d. suppressed 61.6% angiotensin II-induced hypertension in dogs. LD50 of II was >1800 mg/kg p.o. in rats. Pharmaceutical compositions containing imidazopyridines as angiotensin II antagonists ... (R1 = Pr, R2 = Ac, R3 = R4 = Et) HCl salt (II) at 0.3 mg/kg i.d. suppressed 61.6% angiotensin II-induced hypertension in dogs. LD50 of II was >1800 mg/kg p.o. in rats. anthypertensive imidazopyridine angiotensin II antagonist

ΤĪ

ST antagonist

Antiarteriosclerotics (antiatherosclerotics; prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases)

Cardinvascular: prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases)

(dementia: prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases)

L1 ANSWER 66 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 66 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) uney. Unsease (diabetic mephropathy: prepn. of imidazopyridines as amgiotensin II antagonists for treatment of cardiovascular diseases) Kidney, disease Heart. disease (failure. chronic: prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases) Kidney. disease (nephritis: prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases) Antianginal agents Antihypertensives
(prepn. of imidazopyridines as angiotensin II
antagonists for treatment of cardiovascular diseases)
52-39-1, Aldosterone
RL: BSU (Biological study. unclassified); BIOL (Biological study)
(metab. disorder: prepn. of imidazopyridines as angiotensin
II antagonists for treatment of cardiovascular diseases)
190602-73-4P
RL: ADV (Adverse effort implication in the content of the con II antagonists for treatment of cardiovascular diseases)

190:62-73-4P

190:62-73-4P RACT (Reactant or reagent)
(prepn. of imidazopyridines as angiotensin II
antagonists for treatment of cardiovascular diseases)
76-83-5. Trityl chloroide 79-22-1. Methyl chloroformate
3-Pentanol 7791-25-5. Sulfuryl chloride 173307-10-3
RL: RCT (Reactant): RACT (Reactant or reagent)
(prepn. of imidazopyridines as angiotensin II
antagonists for treatment of cardiovascular diseases) RACT (Reactant or reagent)

ANSWER 67 OF 123 CAPLUS COPYRIGHT 2003 ACS
7:384287 Document No. 127:1228 Angiotensin IV and analogs as regulators of fibrinolysis. Vaughan. Douglas E.: Harding. Joseph W. (Brigham and Momen's Hospital. JCA: Washington State University Research Foundation). PCT Int. Appl. NO 9716201 Al 19970509. 64 pp. DESIGNATED STATES: W. AU. CA. JP: RW: AT. BE. CH. DE. DK. ES. Fl. FR. CB. GR. IE. IT. LU. MC. NL. PT. SE. (English). CODEN: PIXXD2. APPLICATION: WO 1996-US13804 19960827. PRIGRITY: US 1995-550174 19951030. Angiotensin IV (VAL-TVR-ILE-HIS-PRO-PHE). a degrdn. product of angiotensin III previously thought to be inactive. Interacts directly with endothelial cells to induce expression of PAI-1 and thereby to inhibit clot lysis attributable to endogenous t-PA. Moreover. angiotensin IV does not effect substantial physiol. changes (vasconstriction. increased blood pressure. etc.) Characteristic of angiotensin II. Fibrinolysis is promoted by reducing the ant. or the effect of angiotensin IV. Nethods of screening candidates for antagonizing angiotensin IV are also disclosed. Angiotensin IV (VAL-TVR-ILE-HIS-PRO-PHE), a degrdn. product of angiotensin IV inhibit clot. ... attributable to endogenous t-PA. Noreover. angiotensin IV does not effect substantial physiol. changes (vasconstriction. increased blood pressure. etc.) Characteristic of angiotensin IV foes not effect substantial physiol. changes (vasconstriction. increased blood pressure. etc.) characteristic of angiotensin IV. Fibrinolysis is inhibited by providing enhanced angiotensin. IV. Fibrinolysis is promoted by reducing the art. or the effect of angiotensin IV. Fibrinolysis is inhibited by providing enhanced angiotensin. IV. Fibrinolysis is promoted by reducing the art. or the effect of angiotensin IV. Fibrinolysis is inhibited by providing enhanced angiotensin. IV and analogs as promoters or eceptorascular: angiotensin IV and analogs as promoters or

Brain. disease
(cerebrovascular: angiotensin IV and analogs as promoters or inhibitors of fibrinolysis in a variety of medical conditions)
11128-99-7. Angiotensin II
RL: BPR (Biological process): BSU (Biological study. unclassified): BIOL (Biological study): PROC (Process)
(use of compds. that inhibit the conversion of angiotensin II to angiotensin IV as promoters of fibrinolysis)

L1 ANSWER 68 OF 123 CAPLUS COPYRIGHT 2003 ACS
1996:750082 Document No. 126:26596 Effects of losartan on cerebral arteries in stroke-prone spontaneously hypertensive rats. Vacher. Elisabeth: Richer, Christine: Giudicellii, Jean-Francois (Department de Pharmacologie, Faculte de Medecine. Le Kremlin-Bicetre, 94276, Fr.). Journal of Hypertension, 14(11), 1341-1348 (English) 1996. CODEN: JOHYD3. ISSN: 0263-6352. Publisher: Rapid Science Publishers.

The objective of this study was to investigate in young salt-loaded stroke-prone spontaneously hypertensive rats (SNR-SP) the effects of a long-term administration of the angiotensin II ATI receptor antagonist losartan [1 mg/kg (L1) and 10 mg/kg (L10) per day at 5-20 wk of age] on the structural and functional characteristics of the middle cerebral artery. Morphol: measurements and isometric tension recordings (myograph, contractile responses to KCl and serotonin, and relaxant responses to bradykinin and sodium nitroprusside) were performed on isolated vessels from randomly selected control and losartan-treated SHR-SP and age-matched Wistar-Kyoto (WKY) rats killed at ages 6-7, 10-11, and 16-17 wk. Whereas all control SHR-SP had died within 18 wk of being born. losartan at both doses afforded full protection against stroke and mortality. Losartan limited malignant hypertension development dose-dependently. Age-related increases in cerebral arterial wall thickness and wall-lumen ratio were not affected (L1) or limited slightly (L10) by losartan. In control SHR-SP, contractile responses of cerebral arteries to agonists decreased with aging and stroke courrence and were significantly smaller than those of age-matched WKY rat arteries. Losartan limited the cerebravascular contractility impairment dose-dependently in SHR-SP but did not affect the WKY rat acreebral artery contractility. In addn., losartan limited the age-related alteration of the endothelium-dependent relaxation of cerebral arteries obsd. in control SHR-SP dose-dependently. Thus, in SHR-SP, losartan prevented s

functions, which are altered during aging and impaired even more dramatically by stroke occurrence.

. . study was to investigate in young salt-loaded stroke-prone spontaneously hypertensive rats (SHR-SP) the effects of a long-term administration of the angiotensin II ATI receptor antagonist losartan [1 mg/kg (I.) and 10 mg/kg (I.) per day at 5-20 wk of age] on the . decreased with aging and stroke occurrence and were significantly smaller than those of age-matched WKY rat arteries. Losartan limited the cerebrovascular contractility impairment dose-dependently in SHR-SP but did not affect the WKY rat cerebral artery contractility. In addn. losartan limited the.

ANSWER 70 OF 123 CAPLUS COPYRIGHT 2003 ACS 5:282552 Document No. 124:332358 Protective effects of ME3221 on hypertensive complications and lifespan in salt-loaded stroke-prone spontaneously hypertensive rats. Nagura. Jun: Yanamoto. Mik1o: Hul. Chen: Yasuda. Sume: Hachisu. Mitsugu; Konno. Fukio (Pharmaceutical Res. Center. Meiji Seika Kaisha Ltd., Yokohama. Japan). Clinical and Experimental Pharmacology and Physiology. 23(3). 229-235 (English) 1996. CODEN: CEXP89. ISSN: 0305-1870. Publisher: Blackwell.

A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. Use and the made of a comparison was made on the protective effects of the following: ME3221. Use and the made of the protective effects of the following: ME3221. Use and the made of the protective effects of the following: ME3221 and the protective effect of the following: ME3221 and losartan increased the survival rate to >90%, and diminished hypertensive complications such as cerebral apoplexy (stroke). renal injury (increased proteinuria, and total N-acetyl-beta-D-glucosaminidase activity) and heart failure (cardiac hypertrophy and pleural effusion). Competitive (ME3221) and non-competitive (losartan) angiotensin ATI receptor antagonists showed comparable efficacy against the complications and mortality of the salt-loaded SHRSP to the salt-loaded SHRSP to the salt-loaded SHRSP to the wasten of the complications such as cerebral apoplexy (stroke). renal injury (increased the survival rate to >90%, and diminished hypertensive complications such as cerebral apoplexy (stroke). renal injury (increased prot

(ME3221) and.

Receptors
RE: BSU (Biological study, unclassified): BIOL (Biological study)
(angiotensin II ATI, protective effects of ME3221.
losartan, and enalapril on hypertensive complications and lifespan in salt-loaded stroke-prone spontaneously hypertensive rats)

- ANSWER 69 0F 123 CAPLUS COPYRIGHT 2003 ACS 16:319527 Document No. 125:25882 ME3221. a surmountable angiotensin AT1-receptor antagonist, prevents hypertensive complications in agad stroke-prone spontaneously hypertensive rats. Nagura. Jun: Hui. Chen: Yamamoto. Mikio: Yasuda. Sumie: Abe. Mitsuhiro: Hachisu. Mitsugu: Konno. Fukio (Pharmaceutical Res. Center. Meiji Seika Katsha. Ltd., Yokohama. 222. Japan). Japanese Journal of Pharmacology, 71(1). 39-49 (English) 1996. CODEN: JJPAAZ. ISSN: 0021-5198. Publisher: Japanese
- 222. Japan). Japanese Journal of Pharmacology. 71(1). 39-49 (English) 1996. CODEN: JJPAA2. ISSN: 0021-5198. Publisher: Japanese Pharmacological Society.
 The protective effects of ME3221. 3-methoxy-2.6-dimethyl-4-[[2'-(lH-tetra2ol-5-yl)-1.1'-biphenyl-4-yl]methoxy]pyridine. on aged (32-wk-old) stroke-prone spontaneously hypertensive rats (SHRSP) were studied following long-term (for 8 mo) oral administration. At a dose of 10 mg/ky/day. ME3221 suppressed the mortality and the hypertensive complications obsd. in control SHRSP: cerebral apoplexy (hemorrhage. and spongeform and malacia in the cerebral cortex). increased proteinuria. and total N-acetyl-.beta.-0-glucosaminidase activity, and cardiac hypertrophy and pleural effusion. The protective activity of ME3221. asumountable angiotensin ATI-receptor antagonist. was comparable to losartan, an insurmountable ATI-antagonist. and also to enalapril. an angiotensin-converting enzyme inhibitor. In addn. ME3221 reduced the systolic blood pressure more effectively than the two ref. drugs.

 . . oral administration. At a dose of 10 mg/kg/day. ME3221 suppressed the mortality and the hypertensive complications obsd. in control SHRSP: cerebral apoplexy (hemorrhage. and spongeform and malacia in the cerebral cortex). increased proteinuria. and total N-acetyl-.beta.-0-glucosaminidase activity. and cardiac hypertrophy and pleural.

and pleural. .

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(angiotensin II ATL ME3221, an angiotensin
ATL-receptor antagonist, prevents hypertensive complications in aged stroke-prone spontaneously hypertensive rats)

11 ANSWER 71 OF 123 CAPLUS COPYRIGHT 2003 ACS
1996:32028 Document No. 124:77283 The role of angiotensin receptor subtypes in cerebrovascular regulation in the rat. Naeveri, Litisa (Institute of Biomedicine, University of Helsinki, Helsinki, Finland). Acta Physiologica Scandinavica. Supplementum. 155(630). 48pp (English) 1995. COCRI: APSSAD. ISSN: 0302-2994. Publisher: Blackwell.

The present studies were conducted to examine the roles of angiotensin IV, and the angiotensin in receptor subtypes in the cerebral circulation. The effects of angiotensin III, the selective ATI receptor antagonist. losartan, and the selective ATI receptor ingands. PD 123319 and CGP 42112. on cerebral blood flow autoregulation, were studied during increases and decreases in blood pressure in normotensive rats. Cerebrocortical blood flow was measured by laser-Doppler flowmetry, while systemic blood pressure was either increased by phenylephrine infusion, or decreased by controlled hemorrhage. The effects of angiotensin II, and ATI and ATI receptor ligands on the contractifity of rat anterior cerebral aftery in vitro. were studied using cannulated, perfused vessel segments. The effect of angiotensin IV on cerebral blood flow after exptl. submarchmoid hemorrhage, and possible involvement of nitric oxide, was studied in rat. Subarachmoid hemorrhage and possible involvement of nitric oxide, was studied in rat. Subarachmoid hemorrhage, while cerebral blood flow was measured by laser-Doppler flowmetry. The main findings in the present studies were that angiotensin II. the ATI antagonist losartan, and the ATI 19gands PD 123319 and GGP 42112, shifted the cerebral blood flow autoregulatory range towards higher blood pressures. PD 123319 and GGP 42112, shifted the cerebral altery. Angiotensin IV was able to reverse the acute CBF redn. aft

ANSWER 71 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) and AT1 and AT2 receptor ligands on the contractility of rat anterior cerebral artery in vitro, were studied using cannulated, perfused vessel segments. The effect of angiotensin I'vo neceptal blood flow after expt1, subarachnoid hemorrhage, and possible involvement of nitric oxide, was studied in rat. Subarachnoid hemorrhage was simulated by injecting 0.3 mL arterial blood flow atter expt1, subarachnoid hemorrhage was simulated by injecting 0.3 mL arterial blood into the cisterna magna, while cerebral blood flow was measured by laser-Dopler flowmetry. The main findings in the present studies were that angiotensin II, the AT1 antagonist losartan, and the AT2 ligands P0 123319 and CGP 42112, shifted the cerebral blood flow autoregulatory range towards higher blood pressures. P0 123319 and CGP 42112 acted as AT2 receptor agonists. In vitro, angiotensin II elicited an AT1 receptor mediated contraction of rat anterior cerebral artery. Angiotensin IV was able to reverse the acute CBF redn. after subarachnoid hemorrhage. No evidence was found to support the involvement of nitric oxide in this response. In conclusion, there is strong evidence. _ questionable, and the losartan induced autoregulatory shift is possibly mediated indirectly through AT2 receptor stimulation. Although AT1 receptors mediate the angiotensin II induced contraction of rat anterior cerebral artery in vitro, this effect does not explain the effect of losartan on CBF autoregulation. Angiotensin IV increases cerebral blood flow after expt1. subarachnoid hemorrhage possibly by dilating cerebral vessels through stimulation of the AT4 receptor. Hypertension Hypertension

(angiotension (angiotension receptor subtype role in cerebrovascular regulation in the rat)

Circulation (brain; angiotensin receptor subtype role in cerebrovascular regulation in the rat)

(Circulation; angiotensin receptor subtype role in cerebrovascular regulation in the rat)

Receptors
RL: BPR (Biological process): BSU (Biological study. unclassified): BIOL
(Biological study): PROC (Process)
(angiotensin 11 AT1. angiotensin receptor subtype
role in cerebrovascular regulation in the rat)

role in Cereurovascular (republication of the Incereurovascular (republication of the Incereurovascular (Biological study): PROC (Process)
(angiotensin II AT2. angiotensin receptor subtype role in cerebrovascular regulation in the rat)

Lery (cerebral, angiotensin receptor subtype role in cerebrovascular regulation in the rat)

- ANSWER 72 OF 123 CAPLUS COPYRIGHT 2003 ACS
 5:865974 Document No. 123:282166 Hypertensive cerebrovascular
 disease and the renin-angiotensin system. Rossi. GianPaolo: Rossi.
 Alberto: Sacchetto. Alfredo; Pavan. Edoardo: Pessina. Achille C.
 (University Hospital. University Padua. Padua. 35126. Italy). Stroke
 (Dallas). 26(9). 1700-6 (English) 1995. CODEN: SJCCA7. ISSN: 0039-2499.
 Publisher: American Heart Associtation.
 A review with 99 refs. Arterial hypertension is the leading cause of
 cardiovascular disease and is assocd. with an increased risk of stroke and
 heart attack. These complications have been largely attributed to the
 remodeling of the arterial wall. including accelerated atherosclerosis
 occurring in hypertensive patients. Although the risk of hemorrhagic
 stroke seems to be directly related to the level of blood pressure
 elevation. no such tript relation has been found between blood pressure
 levels and atherosclerosis. This observation has led to the concept that
 a no. of genetic. humoral, and cellular factors may be involved in
 atherogenesis in hypertensive patients. The exptl. and clin. evidence
 concerning the role of the renin-angiotensin system in cardiovascular
 remodeling and atherogenesis of the cerebrovascular bed as well
 as the data supporting an assocn. between angiotensin II
 and thrombotic stroke are examd. The contribution of the
 renin-angiotensin system to the pathogenesis of accelerated carotid artery
 atherosclerosis and particularly of cerebrovascular disease
 renains to be definitively proven. However, the bulk of exptl. and clin.
 data are consistent with the hypothesis that the renin-angiotensin system
 may play a detrimental role.
 Hypertensive cerebrovascular disease and the renin-angiotensin may play a detrimental role. Hypertensive cerebrovascular disease and the renin-angiotensin
- system
 . . . patients. The exptl. and clin. evidence concerning the role of the renin-angiotensin system in cardiovascular remodeling and atherogenesis of the cerebrovascular bed as well as the data supporting an assocn. between angiotensin II and thrombotic stroke are examd. The contribution of the renin-angiotensin system to the pathogenesis of accelerated carotid artery atherosclerosis and particularly of cerebrovascular disease remains to be definitively proven. However. the bulk of exptl. and clin. data are consistent with the hypothesis that.
 . review hypertension cerebrovascular disease renin angiotensin Brain. disease

Brain, disease

- cerebrovascular, hypertensive; renin-angiotensin system in) 9015-94-5. Renin, biological studies 11128-99-7. Angiotensin
 - RL: ADV (Adverse effect, including toxicity): BIOL (Biological study) (renin-angiotensin system in hypertensive cardiovascular disease)

- ANSWER 71 OF 123 CAPLUS COPYRIGHT 2003 ACS
- (diseases, subarachnoid hemorrhage, angiotensin receptor subtype role in cerebrovascular regulation in the
- rat)
 474-91-3. Human angiotensin II 114798-26-4.
 Losartan 127050-75-7, CGP 42112 130663-39-7, PD 123319
 RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): BIO. (Biological study)
 (angiotensin receptor subtype role in cerebrovascular
- (anglocensin receptor subspictors in the act and anglocensin regulation in the rat) 23025-68-5, Human anglocensin IV RL: BAC (Biological activity or effector, except adverse); BSU (Biological study. unclassified); THU (Therapeutic use); BIOL (Biological study); USES (USES)

(Uses)
(angiotensin receptor subtype role in cerebrovascular regulation in the rat)
10102-43-9, Nitric oxide, biological studies
RL: BPR (Biological process): BBU (Biological study, unclassified); BIOL
(Biological study): PROC (Process)
(angiotensin receptor subtype role in cerebrovascular regulation in the rat)
1128-99-7. Angiotensin II
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(angiotensin receptor subtype role in cerebrovascular regulation in the rat)

regulation in the rat)

ANSWER 73 OF 123 CAPLUS COPYRIGHT 2003 ACS
95:809800 Document No. 123:189350 Suppression of cerebral vasodilation with endothelin-1. Kaito. Nobuyoshi: Onoue. Hisashi: Abe. Toshiaki (Dep. of Neurosurgery. Jikei Univ. School of Medicine. Tokyo. 105. Japan). Of Neurosurgery. Jikei Univ. School of Medicine. Tokyo. 105. Japan). Peptides (Tarrytom. New York). 16(6). 1127-32 (English) 1995. COOEN: PPTDOS. ISSN: 1096-9781. Publisher: Elsevier.

The authors investigated the effect of endothelin-1 on relaxation responses induced by vasodilators usbstances in canine middle cerebral arteries to better understand regulation of cerebrovascular tone and its potential impact on mechanism of cerebral vasospasm. Endothelin-1 elicited concn. dependent contractions in helical strips of canine cerebral arteries (ECS0; 4.62. times. 10-9 N). Pretreatment with 10-94 endothelin-1 significantly reduced endothelium-dependent relaxations by nitroglycerin, prostaglandin 12. and KCI. Although endothelin-1 in a lower concn. (10-10M) did not affect these endothelium-independent relaxations. It did inhibit endothelium-independent relaxation caused by substance P. As low concn. (10-10M) of endothelin-1 also significantly reduced endothelium-dependent relaxation of carine mesenteric arteries induced by acetylcholine. Other vasoconstrictor peptides such as angiotensin-11 and vasopressin did not inhibit endothelium-dependent vasodilation is more sensitive to the inhibitory effect of endothelin-1 also significantly vasodilation is more sensitive to the inhibitory effect of endothelin-1 wasofilation is more sensitive to the inhibitory effect of endothelin-1 than endothelium-independent vasodilation.

Enfect of endothelin-1 not only produces cerebral vasoconstriction but also interferes with vasodilation mechanisms and that endothelium-dependent vasodilation is more sensitive to the inhibitory effect of endothelin-1 than endothelium-independent vasodilation.

Enfect of endothelin-1 also significantly reduced endothelium-dependent relaxation of canine

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L1 ANSWER 74 OF 123 CAPLUS COPYRIGHT 2003 ACS
1995:761477 Document No. 123:169625 preparation of biphenylylmethyltetrazole
derivatives as angiotensin 11 antagonists. Hirota.
Terukage: Sakae. Nobuya: Tamura. Koichi: Okuhira. Masayasu: Amano.
Hirotaka: Yokomoto. Masaharu: Komiyama. Jun (Makunaga Seiyaku K. K.
Japan). PCT Int. Appl. NO 9404516 Al 19940303. 122 pp. DESIGNATED
STATES: N: CA. Jp. KR. US. RN: AT. BE. CH. DE. DK. ES. FR. 08. GR. IE.
IT. LU. NC. NL. PT. SE. (Japanese). CODEN: PIXXD2. APPLICATION: NO
1993-JP1134 19930811. PRIORITY: JP 1992-214094 19920811; JP 1993-68706
                                           19930326
         GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

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The title compds. [I: A = Q. Q1 (wherein R1 = H, alkyl. cycloalkyl. (un)substituted Ph, aralkyl. acyl. etc.; X = Q. S; Y = N. :CR2; Z = Q. N. :CR3 wherein R2, R3 = H, halo. (un)substituted alkyl. (protected) carboxyl. cycloalkyl. alkenyl. alkoxy. etc.. R2 or R3 with adjacent C atmoxyl. cycloalkyl. alkenyl. alkoxy. etc.. R2 or R3 with adjacent C atms may form benzol: B = cyano. (protected) carboxyl. tetrazol-5-yl]. effective ampiotension and such other circulatory diseases as cerebral apoplexy, are prepd. II was added to a suspension of Malk (55% in oil) in DMF with stirring, followed by a soln. of tetrazole deriv. III in DMF. the mixt. was stirred at room temp.. the concd. filtrate was stirred with 10% HCl in dioxane to give IV. which showed an ICSO of 8.0 x 10-9 M against angiotensin II receptor binding. I also lowered blood pressure by 27.6-41.2% at 3 mg/kg orally in rats.
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showed an Lisu of 3.0 x Lin young the same by 27.6-41.2% at 3 mg/kg orally in rats. preparation of biphenylylmethyltetrazole derivatives as angiotensin II antagonists . . . alkenyl alkoxy. etc.. R2 or R3 with adjacent C atoms may form benzo): B - cyano. (protected) carboxyl. tetrazol-5-yl). effective angiotensin II antagonists useful in treating hypertension and such other circulatory diseases as cerebral apoplexy. are prepd. II was added to a suspension of NaH (55% in oil) in DMF with stirring. followed by a . . . was stirred with 10% HCl in dioxane to give IV. which showed an IC50 of 8.0 x 10-9 M against angiotensin II receptor binding. I also lowered blood pressure by 27.6-41.2% at 3 mg/kg orally in rats. biphenylylmethyltetrazole prepn angiotensin II antagonists; antihypertensive biphenylylmethyltetrazole prepn: circulatory disease biphenylylmethyltetrazole prepn. Antihypertensives

Antihypertensives
(prepn. of heterocyclyl biphenyls as angiotensin II

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| 167006-65 | 167006-66-09 | 167006-66-09 | 167006-65 | 167006-65 | 167006-65 | 167006-65 | 167006-67 | 167006-70 | 167006-73-29 | 167006-73-29 | 167006-73-29 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-80-19 | 167006-90-19 | 167006-90-19 | 167006-90-19 | 167006-90-19 | 167006-90-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-19 | 167007-00-
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167007-21-8P 167007-22-9P 167007-32-1P 167007-31-0P 167007-32-1P 167007-35-5P 167007-42-3P 167007-61-2P 167007-51-4P 167007-51-4P 167007-51-4P 167007-51-69 167007-62-7P 167007-66-1P ogical activity or effector. e. 167007-55-8P 167007-60-5P 167007-65-0P

167007-65-DP 167007-66-1P RL: BAC (Biological activity or effector. except adverse): BSU (Biological study. unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of heterocyclyl biphenyls as angiotensin II

antagonists)

Page 35

L1 ANSWER 74 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 74 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) antagonists)
Receptors
RL: BPR (Biological process): BSU (Biological study, unclassified): BIOL (Biological study): PROC (Process) (angiotensin II. antagonists. (biphenylylmethyl)tetrazole derivs.)
167007-67-2P
RL: BMC (Biological statistics) IT

11

167007-67-2P RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. and reaction of, in prepn. of angiotensin II antagonist)

		Teaction or.	in broken	•	
	antagonist)		167004-85-5P	167004-86-6P	167004-87-7P
T			167004-90-2P	167004-91-3P	167004-92-4P
	167004-88-8P	167004-89-9P	167004-95-7P	167004-96-8P	167004-97-9P
	167004-93-5P	167004-94-6P	167005-00-7P	167005-01-8P	167005-02-9P
	167004-98-0P	167004-99-1P	167005-05-2P	167005-06-3P	167005-07-4P
	167005-03-0P	167005-04-1P	167005-10-9P	167005-11-0P	167005-12-1P
	167005-08-5P	167005-09-6P	167005-15-4P	167005-16-5P	167005-17-6P
	167005-13-2P	167005-14-3P	167005-20-1P	167005-21-2P	167005-22-3P
	167005-18-7P	167005-19-8P	167005-25-6P	167005-26-7P	167005-27-8P
	167005-23-4P	167005-24-5P	167005-30-3P	167005-31-4P	167005-32-5P
	167005-28-9P	167005-29-0P	167005-35-8P		167005-37-0P
	167005-33-6P	167005-34-7P			167005-42-7P
	167005-38-1P	167005-39-2P			167005-47-2P
	167005-43-8P	167005-44-9P			167005-52-9P
	167005-48-3P	167005-49-4P			167005-57-4P
	167005-53-0P	167005-54-1P			167005-62-1P
	167005-58-5P	167005-59-6P			
	167005-63-2P	167005-64-3P			167005-72-3P
	167005-68-7P				
	167005-73-4P				167005-82-5P
	167005-78-9P	167005-79-0F 167005-84-7F			167005-87-0P
	167005-83-6P				167005-92-7P
	167005-88-1P				167005-97-2P
	167005-93-8P				167006-02-2P
	167005-98-3P				167006-07-7P
	167006-03-3P				P 167006-12-4P
	167006-08-8P				P 167006-17-9P
	167006-13-5P				P 167006-22-6P
	167006-18-0F				P 167006-30-6P
	167006-24-8F				P 167006-35-1P
	167006-31-7F			P 167006-39-5	P 167006-40-8P
	167006-36-2				P 167006-45-3P
	167006-41-91				P 167006-50-0P
	167006-46-4			P 167006-54-4	P 167006-55-5P
	167006-51-1				
	167006-56-6	L 101000-31-1	25.000 00		

L1 ANSWER 75 OF 123 CAPLUS COPYRIGHT 2003 ACS 1995:742584 Document No. 123:144623 Preparation of alkylglycine derivatives with angiotensin II receptor antagonist activity.

Sato. Atsushi: Nozawa: Yoshihisa (Taitho Pharmaceutical Co Ltd. Japan).

Jpn. Kokai Tokkyo Koho JP 06237182 Az 19941011 Heisei. 27 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-11757 19940203. PRIORITY: JP 1993-18845 19930205.

[[N-(N-alkylg)vcyl)aminomethyl]biphenylyl]tetrazole derivs. [I: Rl = (un)substituted Ph. naphthyl, heterocyclyl contg. 1 or 2 N. 0. or S atoms: R2 = H. HOZCCHZ. Dower alkoxycarbonylmethyl: R3 = lower alkyl: R4 = H. et alkoxycarbonylmethyl: R3 = lower alkyl: R4 = H. et activity and useful as cardiovascular agents for the treatment of hypertension, heart diseases. arteriosclerosis. and brain cerebral apoplexy, are prepd. Thus. 3.63 g N-n-pentyl-N-[[[2]-(N-tyl)]tetrazol-5-y]biphenyl-4-y]methyl]bronoacetamide (prepn. given) was dissolved in DMF followed by adding 1.50 g Et N-benzylglycinate and 600 mg NaHCO3 and the resulting mixt. was stirred at 100.degree. for 4 h to give after detritylation with methanolic HCl and sapon. with 1 N aq. NaOH in MeOH, to give title compd. (II). A total of 51 I were prepd. and 14 I showed pAZ. defined as -log(drug conc.) + log(EdGO (drug)/EDGO (control)) - 1). of 8.49-10.03 for inhibiting the angiotensin II-induced contraction of rat thoretc aorta vs. 8.48 for the known angiotensin II receptor antagonist Dup-753.

Preparation of alkylglycine derivatives with angiotensin II receptor antagonist activity.

. . 0.1], also having antihypertensive activity and useful as

```
ANSWER 75 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) cardiovascular agents for the treatment of hypertension, heart diseases arteriosclerosis, and brain cerebral apoplexy, are prepod. Thus, 3.63 g N-n-pentyl-N-[[2'-(N-trity)ltetrazol-5-yl)biphenyl-4-yl]methyl]bromoacetamide (prepn. given) was dissolved in DMF followed by adding 1.50 g Et N-benzyl]glycinate and . . and 14 I showed pA2. defined as -log(drug concn.) + log([Ed50 (drug)/ED50 (control)] - 1}, of 8.49-10.03 for inhibiting the angiotensin II induced contraction of rat thoretc aorta vs. 8.48 for the known angiotensin II receptor antagonist Dup-753. alkylglycine prepn angiotensin II receptor antagonist bup-753. alkylglycine prepn angiotensin II receptor antagonist carteriosclerosis alkylglycylaminomethylbiphenylyltetrazole: arteriosclerosis alkylglycylaminomethylbiphenylyltetrazole: brain cerebral apoplexy alkylglycylaminomethylbiphenylyltetrazole brain. disease (cerebral apoplexy: prepn. of [[N-(N-
     ANSWER 75 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
                             ain. disease
(cerebral apoplexy: prepn. of [[N-(N-
alky|g]ycyl)aminomethy|]bipheny|y|]Itetrazole derivs. as
angiotensin II receptor antagonists for treatment of
heart disease and brain cerebral apoplexy)
         Heart, disease
                                 urt, disease
(prepn. of [[N-(N-alkylglycyl)aminomethyl]biphenylyl]tetrazole derivs.
as angiotensin II receptor antagonists for
treatment of heart disease and brain cerebral
         apoplexy)
Antiarteriosclerotics
   Antiarteriosclerotics
Antihypertensives
(prepn. of [[N-(N-alkylg]ycyl)aminomethyl]biphenylyl]tetrazole derivs.
as angiotensin II receptor antagonists.
antihypertensives, and antiarteriosclerotics)
6436-90-4P. Ethyl N-benzylglycinate 54608-35-4P. Ethyl
N-(2-phenylethyl]glycinate 60857-16-1P. Ethyl N-p-methoxybenzylglycinate
N-3-pyridylmethylglycinate 88720-42-7P. Ethyl N-0-chlorobenzylglycinate
88720-46-1P. Ethyl N-0-fluorobenzylglycinate 124750-51-2P 143096-13-3P
166592-13-8P 166592-45-6P 166592-56-7P 166592-47-8P 166592-48-9P
166592-90-P0 166592-50-3P 166592-51-4P 166592-55-6P Ethyl
N-5-methyl-2-pyrazinylmethylglycinate 166592-56-9P. Ethyl
N-5-methyl-1-2-pyrazinylmethylglycinate 166592-56-9P. Ethyl
N-benzyl-N-(carboxymethyl)glycinate 166592-55-9P. Ethyl
N-12-(o-methyx)phenyl-lethyl]glycinate 166592-59-2P. Ethyl
N-12-(o-methyx)phenyl-bethyl]glycinate 166592-59-2P. Ethyl
N-12-(o-methyx)phenyl-bethyl]glycinate 166592-59-2P. Ethyl
N-12-(o-methyx)phenyl-bethyl]glycinate 166592-59-2P. Ethyl
N-12-(o-methyx)phenyl-bethyl]glycinate 166592-59-2P. Ethyl
N-12-0-methyx)phenyl-bethylglycinate 166592-59-2P. Ethyl
                     (Reactant or reagent)

(intermediate for prepn. of [[N-(N-alkylg]ycyl)aminomethyl]biphenylyl]t

etrazole derivs. as angiotensin II receptor
```

ANSWER 76 OF 123 CAPLUS COPYRIGHT 2003 ACS
5:533543 Document No. 122:287921 Role of angiotensin II
in cerebrovascular and renal damage in deoxycorticosterone
acetate-salt hypertensive rats. Nada. Takeo: Kanagawa. Rei: Ishimura.
Yoshimasa: Inada. Yoshiyuki: Nishikawa. Kohei (Pharmaceutical Research
Division. Takeda Chemical Industries, Ltd.. Osaka. 532. Japan). Journa
of Hypertension. 13(1), 113-22 (English) 1995. CODEN: JOHYD3. ISSN:
10 Study the afforts of Name of

Division. Takeda Chemical Industries. Ltd., Osaka, 532, Japan). Journal of Hypertension, 13(1), 113-22 (English) 1995. CODE: JOHYD3. ISSN: 0263-6352.

To study the effects of blockade of the renin-angiotensin system on the development of hypertension and end-organ damage in hyporeninemic deoxycorticosterone acetate (DOCA)-salt hypertensive rats, using an angiotensin II (ng II) receptor antagonist (TCV-116) or an angiotensin converting enzyme (ACE) inhibitor (enalapril). DOCA-salt hypertensive rats were produced by uninephrectomy. inplantation with DOCA pellets and Is NaCl loading. TCV-116 (0.1 or 1 mg/kg) or enalapril (10 mg/kg) was given orally once a day from 3 to 6 wk after the operation. Body wt., blood pressure. plasma renin and creatinine, urinary protein and blood uree nitrogen were measured. After 3 wk treatment, edema and comega.3-subtype benzodiazepine receptor binding in the brain were measured. Three weeks after the operation rise blood pressure in the DOCA-salt hypertensive rats was approx. 200 mm/lg, and the plasma renin conon. was lower than in sham-operated rats. However, after a further 3 wk the renin conon. was slightly above the normal level, and this increase was accompanied by a decrease in body wt. and increases in blood urea nitrogen. plasma creatinine, urinary protein and onega.3-subtype benzodiazepine receptor binding in the cerebral cortex, and by brain edema. Threatment with ToV-116 or enalapril prevented renin damage and decrease in body wt. with little effect on blood pressure. Enalapril prevented brain edema and the increase in benzodiazepine binding in the renin-angiotensin system, the degree of cerebral and renal damage and decrease in body wt. with high the hypertension in DOCA-salt hypertensive rats is independent of the renin-angiotensin system, the degree of cerebral and renal damage is assocd, with the activity of the renin-angiotensin system and has little relation with the blood pressure level.

Role of angiotensin II in cerebrovascular and renal damage in deoxycorticoster

antagonists)

entension (angiotensin II in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rat)

Receptors
RI: BBR (Biological process); BSU (Biological study. unclassified); BIOL
(Biological study); PROC (Process)
(angiotensin II. angiotensin II

Page 36

LI	ANSWER 75 OF 123	CADLUS COP	VRIGHT 2003 ACS	(Continued)				
IT		56591-99-7P	166592-00-3P	166592-01-4P	166592-02-5P			
11		56592-04-7P	166592-05-8P	166592-06-9P	166592-07-0P			
		66592-09-2P	166592-10-5P	166592-11-6P	166592-12-7P			
		66592-14-9P	166592-15-0P	166592-16-1P	166592-17-2P			
		66592-19-4P	166592-20-7P	166592-21-8P	166592-22-9P			
		66592-24-1P	166592-25-2P	166592-26-3P	166592-27-49			
		66592-29-6P	166592-30-9P	166592-31-0P	166592-32-1P			
		66592-34-3P	166592-35-4P	166592-36-5P	166592-37-6P			
	166592-38-7P 1		166592-40-1P	166592-41-2P	166592-42-3P			
	166592-43-4P 1	66E03 44 ED	100072 40 11	100072				
	DL DAC (Dialogi	cal activity	or effector ex	cent_adverse):	BSU (Biological			
	RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use):							
	study, unclassified; and confidence preparations, the (merapeaute asset)							
	BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of [[N-(N-alkylglycyl)aminomethyl]biphenylyl]tetrazole derivs.							
	as angiotensin II receptor antagonists)							
	as angiotensi	n II receptor	antagorists/					
IT 11128-99-7. Angiotensin 11 RL: BPR (Biological process); BSU (Biological study, unclassified)								
	(Biological study): PROC (Process)							
	(Riological study): PROC (Process) (reaction in prepn. of [[N-(N-alkylglycyl)aminomethyl]biphenylyl]tet							
	ole derivs.	tagonists)						
	ole derivs.	as any locells i	100-46-0 Rons	vlamine react	ions 105-36-2.			
IT	64-04-U. 2-Prient	rieuriy iani ine	9. n-Butylamine	reactions 1	10-58-7.			
	Ethyl bromoacet	109-73-	ert-Butyl bromo	cotate 17846				
	n-Pentylamine	5292-43-3, L	P Bromoscotyl	chloride 114	772-54-2.			
	(2'-Cyanobiphenyl-4-ylmethyl)amine 124750-51-2. [2'-(N-Trityltetrazol-							
	yl)biphenyl-4-yl]methyl bromide RL: RCT (Reactant); RACT (Reactant or reagent) (reaction in prepn. of [[N-(N-alkylg]ycyl)aminomethyl]biphenylyl]tetra							
	(reaction in	prepri. 01 [[in II receptor a	ntagonists)	· p			
	ole derivs.	as angiotensi	in it receptor a	illagoiriata				

L1 ANSWER 76 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rat)

Kidney, disease

(injury, angiotensin II in cerebrovascular
and renal damage in deoxycorticosterone acetate-salt hypertensive rat)
64-85-7, Deoxycorticosterone
RL: ADV (Adverse effect, including toxicity): BIOL (Biological study)
(angiotensin II in cerebrovascular and
renal damage in deoxycorticosterone acetate-salt hypertensive rat)
III28-99-7, Angiotensin-II
RL: ADV (Adverse effect, including toxicity): BAC (Biological activity or
effector, except adverse): BSU (Biological study, unclassified): BIOL
(Biological study)
(angiotensin II in cerebrovascular and
renal damage in deoxycorticosterone acetate-salt hypertensive rat)
9015-82-1, Dipeptidyl carboxypeptidase
9015-94-5, Renin, biological
studies

9015-82-1. Dipportally Calboxyperroase
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (angiotensin II in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rat) 75847-73-3. Enalapril 145040-37-5. TCV-116
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study); USES (More)

(angiotensin II in cerebrovascular and

renal damage in deoxycorticosterone acetate-salt hypertensive rat)

ANSWER 77 OF 123 CAPLUS COPYRIGHT 2003 ACS
5:215112 Document No. 122:1739 Angiotensin IV reverses the acute cerebral blood flow reduction after experimental subarachnold hemorrhage in the rat. Naveri, Liisa; Stromberg, Christer: Saavedra, Juan M. (Laboratory of Clinical Science, National Institute of Mental Health, Bethesda, MD. 20892, USA). Journal of Cerebral Blood Flow and Metabolism. 14(6), 1096-9 (English) 1994. CODEN: JCBMDN. ISSN: 0271-678X.

and Metabolism. 14(b). 1096-9 (English) 1394- Cookin.

The effect of angiotensin (ANG) IV on CBF after exptl.

subarachnoid hemorrhage (SAH) was studied in rats using laser-Doppler flowmetry. ANG IV (1 .mu.g/kg/min i.v.) or saline treatments were started 20 min after SAH. ANG IV increased CBF (from 45 to 84% of baseline) by 60 min. In the saline group. CBF remained low (SI%). Pretreatment with the specific ANG II antagonist Sarl, 1188-ANG III did not antagonize ANG IV. Detn. of nitric oxide synthase (NOS) activity in vitro or inhibition of NOS in vivo did not support a role for NO in the

in vitro or inhibition of MOS in vivo did not support a file to Mo in action of ANG IV.

Angiotensin IV reverses the acute cerebral blood flow reduction after experimental subarachnoid hemorrhage in the rat.

The effect of angiotensin (ANG) IV on CBF after exptl. subarachnoid hemorrhage (SAH) was studied in rats using laser-Doppler flowmetry. ANG IV (1 mu.g/kg/min i.v.) or saline treatments were started 20 min. . . angiotensin brain circulation subarachnoid hemorrhage Brain

Circulation

(angiotensin degrdn. product reversal of cerebral blood flow redn. in subarachnoid hemorrhage)

Receptors

Receptors
RI: BPR (Biological process): BSU (Biological study. unclassified): BIOL
(Biological study): PROC (Process)
(angiotensin II, angiotensin degrdn. product
reversal of cerebral blood flow redn. in subarachnoid

hemorrhage)

IT Meninges

Meninges
(diseases. subarachnoid hemorrhage, angiotensin
degrdn. product reversal of cerebral blood flow redn. in
subarachnoid hemorrhage)
23025-68-5. Angiotensin IV
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES
(USes)

(angiotensin degrdn. product reversal of cerebral blood flow redn. in

(anglotensin begran, proceeds the test of the subarachord hemorrhage)
10102-43-9, Mitric oxide, biological studies
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study);
PROC (Process)

- L1 ANSWER 78 OF 123 CAPLUS COPYRIGHT 2003 ACS 1994:646383 Document No. 121:246383 Endothelium-derived vasocontracting factor (EDCF): TXA2. Kurahashi. Kazuyoshi: Usui, Hachiro (Radioisot. Re Cent., Kyoto Univ., Kyoto. 606. Japan). Igaku no Ayumi. 170(5). 416-19 (Japanese) 1994. COOEN: IGAYAY. 1SSN: 0039-2359. Publisher: Ishiyaku
- Shuppan.

 A review, with 12 refs., on the acetylcholine-dependent constriction of canine cerebral artery, which is endothelium-dependent contraction (EDC) sensitive to phospholipase A2 inhibitors. cyclooxygenase inhibitors, and TXA2 inhibitors. The EDC is not sensitive to lipoxygenase inhibitors. Serotonin-induced constriction is independent of endothelium. Noradrenaline, histamine, and angiotensin II induce EDC by release of TXA2 as does acetylcholine. Cerebrospinal fluid of subarachnoid hemorrhage induces EDC. The process of TXA2 release as endothelium-derived contracting factor (EDCF) is sensitive
- to nifedipine. . . . and TXA2 inhibitors. The EDC is not sensitive to lipoxygenase inhibitors. Serotonin-induced constriction is independent of endothelium. Noradrenaline. histamine. and angiotensin II induce EDC by release of TXA2 as does acetylcholine. Cerebrospinal fluid of subarachnoid hemorrhage induces EDC. The process of TXA2 release as endothelium-derived contracting factor (EDCF) is sensitive to nifedipine. 51-41-2. Noradrenaline 51-45-6. Histamine. biological studies 51-84-3. Acetylcholine. biological studies 11128-99-7. Angiotensin II
- - 11 RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): BIOL (Biological study) (endothelium-derived contracting factor TXA2 release in cerebral artery

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L1 ANSWER 77 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(angiotensin degrdn. product reversal of cerebral blood flow redn. in
subarachnoid hemorrhage independent of nitric oxide)

125978-95-2. Nitric oxide synthase

1289/18-95-2. MICHIC OXION Syminase
RL: BPR (Biological process): BSU (Biological study. unclassified): BIOL
(Biological study): PROC (Process)
(angiotensin degrdn. product reversal of cerebral blood flow redn. in subarachnoid hemorrhage independent of nitric oxide)

L1 ANSWER 79 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994:579625 Document No. 121:179625 Antihypertensive
[[[(Imidazopyridiny)]methy]]benzofurary]]pheny]]methanesulfonamide
Derivatives. Judd, Duncan Bruce (Glaxo Group Ltd.. UK). PCT Int. Appl.
NO 9411369 Al 19940526. 32 pp. DESIGNATED STATES: N: AT. AU, BB, BG, BR,
BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG,
MN, MM, NL, NO, NZ, PL, PT, RO, RU, SO, SE, SK, UA, US, UZ, VN; RN; AT,
BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU,
MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, (English). CODEN: PIXXOZ.
APPLICATION: NO 1993-EP3157 19931111. PRIORITY: GB 1992-23860 19921113.

Brain, disease

(cerebrovascular insufficiency, [[[(imidazopyridinyl)methyl]b

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ANSWER 79 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
enzofuranyl]phenyl]methanesulfonamides for treatment)
1128-99-7, Anglotensin II
RL: RCT (Reactant): RACT (Reactant or reagent)
(antagonists. [[[(imidazopyridinyl)methyl]benzofuranyl]phenyl]methanesu
         tanicaguitsts. [[Lt micazcupy introlly immetrial judenzolution of junetial functional des) 1500 manifes) 157725-81-0P 157725-82-1P 157725-83-2P 157725-84-3P 157725-85-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THJ (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as angiotensin II antagonist)
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ANSWER 80 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
AROMEN OF C.

Receptors
RL: BIOL (Biological study)
(angiotensin II ATZ. in brain circulation regulation. in hemorrhagic hypotension)
 Hypotension
Hypotension
(hemorrhagic, brain circulation in, angiotensin II
AT2 receptor regulation of)
4474-91-3. Human angiotensin II 114798-26-4.
Losartan 130663-39-7. PO 123319
RL: BIOL (Biological study)
(brain circulation in response to, in hemorrhagic hypotension)
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Page 38

L1 ANSWER 80 OF 123 CAPLUS COPYRIGHT 2003 ACS

1994.474532 Document No. 121:74532 Angiotensin II AT2
receptor stimulation increases cerebrovascular resistance during
hemorrhagic hypotension in rats. Naeveri. Lifsa: Stroemberg. Christer;
Saavedra. Juan M. (Section on Pharmacology. Laboratory of Clinical
Science. National Institute of Mental Health, National Institutes of
Health, 9000 Rockville Pike. Bethesda. NO 20892. USA). Regulatory
Peptides, 52(1), 21-9 (English) 1994. CODEN: REPPDY. ISSN: 0167-0115.

AB The effects of the angiotensin II (ANG II) AT2 Tigand
pp 123319 and the AT1 antagonist losartan on cerebral blood flow (CBF)
were studied during hemorrhagic hypotension in anesthetized rats using
laser-Doppler flowmetry. In the control group CBF remained stable when
mean arterial blood pressure (MABP) was lowered from 84 mmly (baseline) to
45 mmly, whereafter there was a pressure dependent decrease in CBF
indicating inadequacy of autoregulation. Cerebrovascular
resistance (CVR) was reduced until MABP 40 mmly, where a max. dilation was
reached. Pp 123319 dose-dependently (3-30 mg/kg i.v. had an effect similar
to Pp 123319 dose-dependently (3-30 mg/kg i.v. had an effect similar
to Pp 123319 selective stimulation of ATZ receptors with i.v. ANG II
infusion. In the presence of ATI receptor blockade by losartan, also
increased CVR. As a result. reduced CBF was seen in the treatment groups.
The effects of ANG II antagonist Sarl.11e8-ANG II (4.m.,g/kg/min i.v.).
None of the treatments affected baseline CBF. The results confirm that
ANG II contributes to cerebrovascular resistance and
participates in the regulation of CBF apparently through ATZ receptors.

AB The effects of the angiotensin II (ANG II) ATZ ligand

AB The effects of the angiotensin II (ANG II) ATZ ligand

AB The effects of the angiotensin II (ANG II). ATZ ligand

AB The effects of the angiotensin II (ANG II). ATZ ligand

AB The effects of the angiotensin II (ANG II). ATZ ligand

AB The effects of the angiotensin II (ANG II). ATZ ligand

AB The
                                                                        AT2 receptors.
                                                                   Brain
                                                                                          (circulation of, in hemorrhagic hypotension, angiotensin
II AT2 receptor regulation of)
                                                                   11 A12 receptor regulation in. angiotensin
(hypotension from. brain circulation in. angiotensin
11 A12 receptor regulation of)
                         IT Circulation
(of brain, in hemorrhagic hypotension, angiotensin II
AT2 receptor regulation of)
```

L1 ANSWER 81 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994:450765 Document No. 121:50765 The role of angiotensin
II in the regulation of cerebrovascular function in the
rat. Saavedra, Juan M. (Laboratory of Clinical Science, National
Institute of Mental Health, Bethesda, MD. 20892, USA), Pharmaceutical and
Pharmacological Letters, 3(6), 256-9 (English) 1994. CODEN: PPLEE3.
155N: 0030-0488 rat. Saavedra. Juan M. (Laboratory of Unifical Science. Mational Institute of Mental Heath. Betheads. Mb. 2089; USA). Pharmaceutical and Pharmacological Letters. 3(6), 256-9 (English) 1994. CODEN: PPLEG3. ISSN: 0939-9488. Angiotensin II has been proposed to play a role in cerebrovascular control. With quant. autoradiog, and selective competitors, the authors demonstrated angiotensin II AT2 receptors in rat cerebral arteries. Selective angiotensin II AT2 receptors in rat cerebral arteries. Selective angiotensin II AT1 and AT2 receptor ligands modulate the upper limit of the cerebral blood flow autoregulation. Angiotensin II at1 and at2 receptor stimulation with an angiotensin II at1 cerebral blood flow autoregulation. Similar results were obtained with the AT2 selective ligands PD 123019 and CGP 42112. and with administration of losartan alone. These results indicate a significant role for the angiotensin II system in the regulation of cerebrovascular disorders.

The role of angiotensin II system in the regulation of cerebrovascular disorders.

The role of angiotensin II in the regulation of cerebrovascular function in the rat Angiotensin II has been proposed to play a role in cerebrovascular control. With quant. autoradiog, and selective competitors, the authors demonstrated angiotensin II AT2 receptors in rat cerebral arteries. Selective angiotensin II AT2 receptor in rat cerebral arteries. Selective angiotensin II AT2 receptor stimulation with an angiotensin II at1 and AT2 receptor ligands modulate the upper limit of the cerebral blood flow autoregulation. Angiotensin II at2 receptor stimulation with an angiotensin II infusion in the presence of the AT1 antagonist losartan extends the upper limit of cerebrovascular tone. Selective nonpeptidic AT1 and AT2 compds. Could be useful for the treatment or prevention of cerebrovascular does. Selective nonpeptidic AT1 and AT2 compds. Could be useful for the treatment or prevention of cerebrovascular does. Selective nonpeptidic AT1 and AT2 compds. brain circulation angiotensin II (circulation of, angiotensin II regulation of) IT Circulation (of brain, angiotensin II regulation of) Receptors
RL: BIOL (Biological study)
(angiotensin II ATI, in brain circulation regulation) Receptors
RL: BIOL (Biological study)
(angiotensin II AT2. in brain circulation regulation)

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L1 ANSWER 83 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994:213748 Document No. 120:213748 Cerebrovascular autoregulation
in response to hypertension induced by NG-nitro-L-arginine methyl ester.
Kelly, P. A. T.; Thomas, C. L.; Ritchie, I. M.; Arbuthnott, G. W. (Dep.
Clin. Neurosci., Univ. Edinburgh, Edinburgh, UK). Neuroscience (Oxford,
United Kingdom), 59(1), 13-20 (English) 1994. CODEN: NRSCON. ISSN:
0306-4522.
                                  Kelly, P. A. T.; Thomas, C. L.; Ritchie, I. M.; Arbuthnott, G. W. Opp. Clin. Neurosci. Univ. Edinburgh, Edinburgh, UK). Neuroscience (Oxford, United Kingdom), 59(1), 13-20 (English) 1994. CODEN: NEXCON. ISSN: 0306-4522.
Local neocortical blood flow and glucose utilization were measured in conscious rats using [14C]iodoantipyrine and [14C]2-deoxyglucose quant. autoradiog.. resp., following i.v. injection of the nitric oxide synthase inhibitor No-nitro-Largnine Me seter (L-NAME) (30 mg/kg). The dose of L-NAME was chosen to produce a level of hypertension equiv. to that produced in a parallel group of rats by the infusion of angiotensin-II (5 mm.g/mL at 0.5-2.0 mL/h). In those animals in which angiotensin-induced hypertension did not exceed 150 mmHg (mean arterial blood pressure), there were no significant effects upon cortical blood flow when compared to controls, but at higher pressures (157 mHg), blood flow was significantly increased in circumscribed areas of cortex, most notably in parietal (from 204 to 780 mL/100 g/ min) and occipital cortex (from 175 to 600 mL/100 g per min), while other cortical areas (e.g. temporal and frontal areas) were unchanged. Despite the fact that L-NAME he ester increased blood pressure to levels (164 mmHg) which were in excess of the highest produced by angiotensin, there was no evidence of focal hyperemia: indeed blood flow was significantly reduced in every cortical region except parietal area 1. No significant differences in glucose use were evident between any of the groups. Apparently, by influencing cerebrovascular tone, nitric oxide may play a role in detg, the upper limit of autoregulation, but also inhibition of nitric oxide synthesis may result in a dissocn, of blood flow from the metabolic demands of cortical tissues. Cerebrovascular autoregulation in response to hypertension induced by NG-nitro-L-arginine methyl ester . . to produce a level of hypertension equiv. to that produced in a parallel group of rats by the infusion of angiotensin-II (5 .mu.g/mL ab. 15-2.0 mL/h
                                                                  Hypertension
                                                                                                  (cerebrovascular autoregulation response to. nitric oxide
                                                                                                  role in)
                                                               rule In/
IO102-43-9, Nitric oxide, biological studies
RL: BIOL (Biological study)
(cerebrovascular autoregulation mediated by)
11128-99-7, Angiotensin II
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RI: BIG. (Biological study)
(hypertension induced by. cerebrovascular autoregulation response to. nitric oxide in relation to)

IT 50-99-7. D-Glucose, biological studies

ANSWER 81 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 81 OF 123 CAPLUS COPYRIGHT 2003 ACS
Aftery. composition
(cerebral. angiotensin II AT2 receptor of)
4474-91-3. Human angiotensin II
RL: BIOL (Biological Study)
(brain circulation in response to)
11128-99-7. Angiotensin II
RL: BIOL (Biological Study)
(receptor for. in brain circulation regulation)

L1 ANSWER 82 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994;260880 Document No. 120:260880 Quinapril prevents stroke both during and after the treatment period in stroke-prone spontaneously hypertensive rats. Vacher. Elisabeth: Fornes, Paul: Domergue, Valerie: Richer. Christine: Bruneval. Patrick; Giudicelli, Jean Francois (Dep. Pharmacol., Fac. Med., Paris-Sud. Fr.). American Journal of Hypertension. 6(11, Pt. 1), 951-9 (English) 1993. CODE: AJHY66. ISSN: 0995-7061.

AB The effects of long-term oral administration of quinapril on the occurrence of stroke and on mortality were investigated in young. salt-loaded. Stroke-prone spontaneously hypertensive rats (SIR-SPs) during the treatment period (Bth-34th week of age) and for .ltoreq.6 wk thereafter. Simultaneously. blood pressure, salt intake, diuresis, and proteinuria were investigated at regular intervals. and cerebrovascular, renal, and cardiac lesions were assessed after death. Quinapril completely suppressed stroke and mortality, afforded only limited protection against the blood pressure rise, and prevented increases in salt intake, divuresis, and proteinuria both during and after the treatment period. Quinapril long-lastingly prevented vascular fibrinoid necrosis development at the cerebral, but also at the renal and cardiac, levels. In the kidneys, vascular intimal and medial hyperplasias were strongly reduced, as were the glomerular and tubulointerstitial lesions. At the cardiac level, intimal and medial hyperplasias were slightly reduced but infraction and fibrosis were hardly affected. As the renin-angiotensin system is highly stimulated in SIR-SPs and as angiotensin II (AII) is responsible for fibrinoid necrosis formation, vessel obstruction, and stroke in these animals, it is concluded that the long-lasting protection afforded by quinapril against stroke and mortality in SIR-SPs both during and after the treatment period is mostly due to the drug-induced interruption of the renin-angiotensin system. The resulting suppression of AII also prevents renal and, t

L1 ANSWER 83 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
RL: BIOL (Biological study)
(uptake of, by brain, cerebrovascular autoregulation and
nitric oxide in relation to)

ANSWER 84 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:127189 Document No. 120:127189 Chronic lead exposure in rats: effects
on blood pressure. Nowack, R.: Wiecek, A.: Exner, B.: Gretz, N.: Ritz, E.
(Dep. Intern. Med. Univ. Heidelberg. Heidelberg, Germany). European
Journal of Clinical Investigation. 23(7), 433-43 (English) 1993. CODEN:

Journal of Clinical Investigation. 23(7), 433-43 (English) 1993. CODEN: EJCIBB. ISSN: 0014-2972.

EJCIBB. ISSN: 0014-2972.

The influence of Pb exposure on blood pressure was investigated in Wistar Kyoto. Sprague Dawley and stroke prone spontaneously hypertensive rats. In short-term exposure and steependent decrease of blood pressure was found with administration of Pb acetate in drinking fluid. This effect was more pronounced in young, male as compared to old. Female animals. Pressor responses to noradrenaline and ANG II were decreased. In contrast, long-term Pb exposure of more than 1 yr duration consistently caused hypertension. In SMR-sp a high proportion of animals died from cerebrovascular hemorrhage even before developing hypertension. Chronically Pb exposed hypertensive rats had increased plasma vol. and total body sodium despite normal renal function. Plasma concns. of catecholamines and PRA were normal. The results show a biphastic effect of Pb on blood pressure. An important role of renal sodium retention in chronic Pb-induced exptl. hypertension is suggested.

Pb exposure of more than 1 yr duration consistently caused hypertension. In SIR-sp a high proportion of animals died from cerebrovascular hemorrhage even before developing hypertension. Chronically Pb exposure of more than 1 yr duration consistently caused hypertension. The proportion of animals died from cerebrovascular hemorrhage even before developing hypertension. 15-41-2. Noradrenaline 7440-09-7. Potassium. biological studies 7440-23-5. Sodium, biological studies 7440-70-2. Calcium. biological studies 11128-99-7. Angiotensin II Rt. BIOL (Biological study) (lead effect on blood pressure in relation to)

(lead effect on blood pressure in relation to)

L1 ANSWER 86 OF 123 CAPLUS COPYRIGHT 2003 ACS
1993:462704 Document No. 119:62704 Stroke prevention by losartan in stroke-prone spontaneously hypertensive rats. Stier. Charles T., Jr.; Adler. Lawrence A.: Levine. Seymour; Charder. Praveen N. (Dep. Pharmacol., New York Med. Coll., Valhalla, MY. 10595, USA). Journal of Hypertension, 11(3), S37-542 (English) 1993. COOEN: JOHYO3. ISSN: 0263-6352.

AB Treatment with the angiotensin II antagonist losartan at 30 mg/kg/day, orally, delayed the development of severe hypertension and prevented stroke in saline-drinking stroke-prone spontaneously hypertensive rats (SHRSP); doses of 10 mg/kg/day did not affect the hypertension but prevented the occurrence of cerebrovascular lesions until age. gtoreq.28 wk. These and other data are consistent with the theory that angiotensin II has an effect on the pathophysiol. of cerebrovascular lesion development in saline-drinking SHRSP and that losartan protects against such development in the absence of a blood pressure fall.

AB Treatment with the angiotensin II antagonist losartan at 30 mg/kg/day. orally, delayed the development of severe hypertension and prevented stroke in saline-drinking stroke-prone spontaneously hypertension tut prevented the occurrence of cerebrovascular lesions until age. gtoreq.28 wk. These and other data are consistent with the theory that angiotensin II has an effect on the pathophysiol. of cerebrovascular lesion development in saline-drinking SRRSP and that losartan protects against such development in the absence of a blood pressure fall.

IT Brain. disease (stroke. losartan inhibition of. in stroke-prone hypertension. angiotensin II in relation to)

Hypertension (stroke-prone spontaneous.) losartan inhibition of. angiotensin

(stroke-prone spontaneous. losartan inhibition of, angiotensin

(stroke-prome spontaneous, losartan immortion or. Angiocessia. II in relation to)
11128-99-7. Angiotensin II RL: BIO. (Biological study)
(stroke-prome spontaneous hypertension inhibition by losartan in relation to)
114798-26-4. Losartan RL: BIO. (Biological study)
(stroke-prome spontaneous hypertension inhibition by.

(stroke-prone spontaneous hypertension inhibition by, angiotensin II in relation to)

L1 ANSMER 85 OF 123 CAPLUS COPYRIGHT 2003 ACS
1993:573911 Document No. 119:173911 Effect of chronic treatment with
losartan on development of hypertension in stroke-prone spontaneously
hypertensive rats (SHRSP): comparative study with enalaparil and
hydralazine. (Kada. Megumu: Kobayashi. Masahiko: Satoh. Noriko:
Nishikibe. Masaru: Ikemoto. Fuahinko (Tsukuba Res. Inst.. Banyu Pharm.
Co. . LTD. . Tsukuba. Japan). Hypertension Research. 16(1). 49-55 (English)
1993. (CODR: HRESE4. ISSN: 0916-9636.
AB SHRSP were treated with the title drugs at 5 to 13 wk of age. The
angiotensin II antagonist losartan (10 mg/kg/day).
enalapril (30 mg/kg/day) and hydralazine (30 mg/kg/day) inhibited the
age-related development of hypertension: in addn. . blood pressure in the
losartan and enalapril groups. but not in the hydralazine group. remained
lower than that in controls for . litoreq. 15 k after discontinuation of
treatment. Heart wt. in the losartan and enalapril groups was lower than
that in controls at the ages of 16 and 29 wk, while there was no
difference in heart wt. with hydralazine. At the age of 29 wk,
cerebrovascular lesions. as Judged by the histochem. obsd. leakage
of parenterally infused horseradish peroxidase from the vessels, were
decreased in all drug-treated groups, but the effect was most prominent in
the group treated with losartan. Plasma renin activity and immunoreactive
renin content in the Juxtaglomerular cells were lower than those in
controls. Losartan at 1 mg/kg/day had no appreciable effect on blood
pressure. heart wt., plasma ernin and angiotensin-converting enzyme
activities, or immunoreactive renin content in the juxtaglomerular cells.
These results suggest that the blockade of angiotensin
II yields a persistent antilippertensive effect accompanied by
protection of cerebral vessels from lesions and of the heart from
hypertrophy.

protection of cerebral vessels from lesions and of the heart from hypertrophy.

SIRSP were treated with the title drugs at 5 to 13 wk of age. The angiotensin II antagonist losartan (10 mg/kg/day) inhibited the age-related development of hypertension: in addn. blood. . 16 and 29 wk, while there was no difference in heart wk, with hydralazine. At the age of 29 wk, cerebrovascular lesions, as judged by the histochem. obsd. leakage of parenterally infused horseradish peroxidase from the vessels, were decreased in all. . renin and angiotensin-converting enzyme activities, or immunoreactive renin content in the juxtaglomenular cells. These results suggest that the blockade of angiotensin II yields a persistent antihypertensive effect accompanied by protection of cerebral vessels from lesions and of the heart from hypertrophy.

1128-99-7. Angiotensin II R.: BIOL (Biological study) (-renin system in spontaneous hypertension, losartan and enalapril and

: פוטה נסוטוטשונסו צושטי) (-renin system in spontaneous hypertension. losartan and enalapril and hydralazine effect on)

L1 ANSWER 87 OF 123 CAPLUS COPYRIGHT 2003 ACS
1993:440818 Document No. 119:40818 Acute cocaine alters
cerebrovascular autoregulation in the rat necocritex. Kelly, Paul
A T.: Sharkey. John: Philip. Ross: Ritchie. Isobel M. (Dep. Clin.
Neurosci., Univ. Edinburgh. Edinburgh. EH4 2XU. UX). Brain Research
Bulletin. 31(5), 581-5 (English) 1993. (COBE: BRBUDI. ISSN: 0361-9230.
AB Although cocaine abuse has been assocd. with an increased incidence of
cerebrovascular accident, the underlying mechanisms are unknown.
In this study. the authors have investigated the effects of cocaine upon
the autoregulation of local cortical blood flow (ICBF) during
hypertension. Hypertension was induced in conscious rats by i.v. infusion
of angiotensin-II (5 mm.g/ml: 0.5-2.5 ml/h). and
animals were subsequently injected IV with either cocaine-HCl (5 mg/kg) or
saline. prior to the measurement of ICBF or glucose untilization (ICGU)
using [14C]-iodoantipyrine or [14C]-2-deoxyglucose quant. autoradiog..
resp. Hypertension alone (<155 mmHg) did not significantly alter ICBF in
any cortical areas examd. However, at higher mean arterial blood pressure
(MABP). ICBF increased focally (<265%) in parietal cortex. Cocaine did
not alter ICBF in normotensive animals, but with increasing levels of
hypertension (MABP > 145 mm/g). all cocaine-treated rats showed focal
increases (200-400X) in ICBF in parietal cortex. Glucose use remained
relatively unaffected in all treatment groups. This hyperemia in
cocaine-treated rats at MABP below the normal upper limit of
autoregulation may provide a mechanism to explain hemorrhagic stroke in
cocaine abusers.

I Acute cocaine alters cerebrovascular autoregulation in the rat

Acute cocaine alters cerebrovascular autoregulation in the rat

neocortex
Although cocaine abuse has been assocd. with an increased incidence of cerebrovascular accident, the underlying mechanisms are unknown.

In this study, the authors have investigated the effects of cocaine upon the autoregulation of local cortical blood flow (ICBF) during hypertension. Hypertension was induced in conscious rats by i.v. infusion of angiotensin-II (5 .mu.g/ml.; 0.5-2.5 ml/h), and animals were subsequently injected IV with either cocaine-HCl (5 mg/kg) or saline, prior to the.

cocaine cerebrovascular autoregulation hypertension 50-36-2. Cocaine

50-36-2. Cocaine
RL: BIOL (Biological study)
(brain circulation autoregulation response to, in hypertension, cerebrovascular accidents in relation to)

- ANSWER 88 OF 123 CAPLUS COPYRIGHT 2003 ACS
 -400553 Document No. 119:553 Control of blood pressure and end-organ
 damage in maturing salt-loaded stroke-prone spontaneously hypertensive
 rats by oral angiotensin II receptor blockade
 rats yo and angiotensin II receptor blockade
 rats of the same of
- Hypertension. 11(1). 31-40 (English) 1993. CODEN: JOHNOS. ISSN: 0263-6352.
 The authors aimed to study the effects of renin-angiotensin system blockade by a novel non-peptide angiotensin II receptor antagonist. losartan. on development of hypertension and acceleration of end-organ damage in salt-loaded stroke-prome spontaneously hypertensive rats (SHRSP). One hundred and eighty-one male SHRSP were fed a 4% sodium diet from 6 to 18 wk of age. Seventy-eight SHRSP were treated orally with losartan. 30 mg/kg per day. One hundred and three rats constituted untreated controls. Blood pressure. plasma renin activity (PRA). renal function and end-organ damage were monitored during the transition to malignant hypertension. Losartan prevented a blood pressure rise during the first 4 wk of salt loading. Thereafter, blood pressure rise during the first 4 wk of salt loading. Thereafter at taking the same standard blood pressure was significantly lower in losartan-treated rats than in control rats. Losartan treatment increased PRA during the first 4 wk, but this effect was not sustained. Thereafter. PRA decreased to control (week 0) levels. In contrast. 2 wk after high-sodium feeding started. untreated SHRSP failed to suppress PRA appropriately: thereafter. PRA rose significantly. Losartan affected renal pathophysiol. by blunting the decline in glomerular filtration rate, controlling proteinuria and preventing or delaying the appearance of malignant nephrosclerosis. Losartan treatment significantly increased survival and completely prevented cerebrovascular infarcts. The results indicate that angiotensin II blockade markedly reduces both hypertension and end-organ damage in chronically salt-loaded SHRSP and that the renin-angiotensin system may play an important role in the development of hypertensive cardiovascular disease in SHRSP. Control of blood pressure and end-organ damage in maturing salt-loaded Stroke-prone spontaneously hypertensive rats by oral angiotensin system.
- authors aimed to study the effects of renin-angiotensin system The authors aimed to study the effects of renin-angiotensin system blockade by a novel non-peptide angiotensin II receptor antagonist. losartan. on development of hypertension and acceleration of end-organ damage in salt-loaded stroke-prone spontaneously hypertensive rats (SRRSP). One. . rate. controlling proteinuria and preventing or delaying the appearance of malignant nephrosclerosis. Losartan treatment significantly increased survival and completely prevented cerebrovascular infarcts. The results indicate that angiotensin II blockade markedly reduces both hypertension and end-organ damage in chronically salt-loaded SHRSP and
- ANSWER 89 OF 123 CAPLUS COPPRIGHT 2003 ACS:
 :169107 Document No. 118:169107 Preparation of antihypertensive
 benzofuran derivatives with N-linked lH-imidazolylmethyl-5-carboxamide
 substituents. Ross. Barry Clive: Middlemiss, David: Scopes. David lan
 carter: Jack. Torquil lain MacLean: Cardwell, Kevin Stuart: Dowle. Hichael
 Dennis: Judd. Duncan Bruce (Glaxo Group Ltd., UK). Eur. Pat. Appl. EP
 514216 Al 1921119, 27 pp. DESIGNATED STATES: R. AT. BE. (H. DE. DK. ES.
 FR. GB. GR. IT. LI. LU. MC, NL. PT. SE. (English). CODEN: EPXXDW.
 APPLICATION: EP 1992-304448 19920515. PRIORITY: GB 1991-10635 19910516.

- Title compds. I (R1 = Et. Pr: R2 = C1. Me. Et: R3 = H. Me. Et), were prepd. Thus. 1.1-dimethylethyl [2-(3-bromo-5-methyl-2-benzofuranyl)phenyl]carbamate (prepn. from 5-methylbenzofuran given) was converted in several steps to title compd. II. In a test for antihypertensive activity in renal-ligated hypertensive rats. II at 0.5 mg/kg orally showed a diastolic blood pressure redn. after 7 h of 60 (no units given). I are angiotensin II antagonists and are useful in treatment of cognitive disorders (no data). Pharmaceutical formulations conto. I are diven.
- are useful in treatment of Countries disasted and act is to desire from the control of the countries of countries of
- Brain, disease ΙT
- Brain. disease (cerebrovascular insufficiency. treatment of. benzofuraylimidazolecarboxamides for) 11128-99-7. Anglotensin II RL: RCT (Reactant); RACT (Reactant or reagent)

Page 41

L1 ANSWER 88 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) that the renin-angiotensin system may play an

Antihypertensives
(anglotensin II antagonist as. in stroke-prone
spontaneous hypertension)
Kidney. disease
(injury. in salt-loaded stroke-prone spontaneous hypertension.
anglotensin II antagonist block of)

ANSWER 90 OF 123 CAPLUS COPYRIGHT 2003 ACS 3:144836 Document No. 118:144836 Alterations of cerebromicrovascular Na*, K*-ATPase activity due to fatty acids and acute hypertension. Caspers, Mary Lou; Bussone, Mary; Dow, Matthew J.; Ulanski II, Lawrence J.; Grammas, Paula (Dep. Chem., Univ. Detroit Mercy, Detroit, MI, USA). Brain Research. 602(2), 215-20 (English) 1993. CODEN: BRREAP. ISSN: 0006-8993. Acute hypertension induced in action of the control of

Brain Research, 602(2), 215-20 (English) 1993. CODEN: BRREAP. 1SSN: 0006-8993.

Acute hypertension, induced in rats by i.v. injection of angiotensin II, previously has been shown to increase cerebrovascular permeability to macronols. The purpose of this study was to examine the effect of acute hypertension on Na+.K+-ATPase, the enzyme responsible for controlling ionic permeability of the cerebromicrovascular endothelium. The K+-dependent p-introphenylphosphatase activity of the cerebromicrovascular national propertensive and normotensive was detd. Using microvessels prepd. from hypertensive and normotensive rats. When compared to controls, a 70% decrease in the max. rate (Vmax) of the Na+.K+-ATPase from hypertensive rats was evident with no change in the Michaelis const. (MV). In contrast, gamma, "glutamyltranspeptidase, a marker enzyme for cerebral endothelial cells, was not affected. Sodium arachidonate (1-100 mu.H) inhibited the phosphatase activity of the na+.K+-ATPase in microvessels isolated from both normotensive and hypertensive rats in a dose-dependent manner. Furthermore, poly-unsatd. fatty acids (sodium inloelate and arachidonate) evoked the greatest inhibition of the enzyme, while sodium pleate and sodium palmitate inhibited the Na+.K+-ATPase to lesser extents. This regulation of enzyme activity by fatty acids was comparable in control and hypertensive or control rats. Acute hypertensive as a consequence of acute hypertension and that poly-unsatd. fatty acids can modulate this enzyme in microvessels from either hypertensive or control rats.

Acute hypertension, induced in rats by i.v. injection of angiotensin II, previously has been shown to increase cerebrovascular permeability to macromols. The purpose of this study was to examine the effect of acute hypertension on Na+.K+-ATPase, the enzyme.

L1 ANSWER 91 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:646043 Document No. 117:246043 Angiotensin II
receptor antagonist delays renal damage and stroke in salt-loaded Dahl
salt-sensitive rats. Von Lutterotti, Nicola: Camargo. Maria J. F.:
Cambbell, Wallace G., Jr.; Weller, Franco B.; Timmermans, Pieter B.:
Sealey, Jean E.; Laragh, John H. (Ned. Coll., Cornell Univ., New York, NY.
10021. USA). Journal of Hypertension. 10(9). 949-57 (English) 1992.
COON: JOHYD3. ISSN: 0263-6352.

AB The effects of blockade of the renin-angiotensin system upon the
development of hypertension, end-organ damage, and mortality in Dahl
salt-sensitive (DSS) rats were studied using an angiotensin
II receptor antagonist. losartan. Losartan blunted the Na-induced
blood pressure rise only transiently. Salt loading suppressed plasma
renin activity (PRA) in both groups until week 4 and thereafter it rose
more markedly in the treated group. With no treatment, renal lesions were
first detected at 2 wk and strokes at 6 wk. However, losartan transiently
decreased the incidence and delayed the progression of renal damage and
cerebrovascular lesions (Strokes) and increased survival. PRA
correlated with renal damage and the incidence of strokes in both groups.
Blood pressure only partially affected survival. but did not correlate
with stroke incidence. Thus, although the rise in blood pressure is
dependent upon Na loading, morbidity and mortality in salt-loaded DSS rats
are assocd, with activation of the renin-angiotensin system and are only
partially related to blood pressure.

Angiotensin II receptor antagonist delays renal damage
and stroke in salt-loaded Dahl salt-sensitive rats

. . . renin-angiotensin system upon the development of hypertension,
end-organ damage, and mortality in Dahl salt-sensitive (DSS) rats were
studied using an angiotensin system upon the development of hypertension,
orenin-angiotensin li receptor antagonist.

Nex and strokes at 6 wk. However, losartan transiently decreased the
incidence and delayed the progression of renal d

Receptors
RE: BIOL (Biological study)
(angiotensin II. kidney damage and stroke response
to sodium loading in relation to)
11128-99-7, Angiotensin II
R: BIOL (Biological study)
(receptors for, kidney damage and stroke response to sodium loading mediation by)

L1 ANSWER 93 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:253443 Document No. 116:253443 Clinical studies on serum
apolipoproteins in cerebrovascular diseases. Tsugu. Yasukuni
(Med. Sch. Nagoya City Univ. Nagoya. 467. Japan). Nagoya-shiritsu
Daigakku Jakkai Zasshi. 42(4). 877-90 (Japanese) 1991. CODEN: NASDA6.

ISSN: 0027-7606.

ISSN: 0027-7606.

Cerebral infarction (CI) patients <59 yr old showed different blood apolipoprotein levels depending on artery disease. CI patients >60 yr old showed no specific tendency. The blood levels of apolipoproteins in controls were 135.0, 31.4, 97.5, 4.49. 8.87, and 4.50 mg/d. for AI. AII. B. CII. CIII. and E. resp.. CI patients with the distribution of a perforating artery (CIPA) exhibited increased levels of 14.9, 6.30, 13.28, and 6.19 mg/d. for B. CII. CIII and E. resp., in the acute phase. CI patients with a distribution of a cortical artery (CICA) showed lower blood levels for AI and AII as 115.4 and 27.3 mg/d. resp. in acute phase. The level of AI in encephalorrhagia was decreased slightly at 122.9 mg/dL. CICA in chronic phase >1 mo after onset of the disease remained unchanged. CIPA in chronic phase showed increased blood levels of B. CIII. and E at 114.3, 11.33, and 5.76 mg/dL. resp. Encephalorrhagia in the chronic phase showed lower AI and AII levels as 122.5 and 27.5 mg/dL. resp. Acute phase CICA with diabetes mellitus CDM) showed higher clill levels of 13.79 mg/dL than CIPA without DM. Blood apolipoprotein levels in CICA were not different between primary and recurrent diseases. Recurrent CIPA showed lower blood levels of AI. AII. CII. and CIII. CIPA without recurrence showed high CII and CIII levels. The AI level appears to be an atherogenicity index. whereas CII reflects repair of infarction. Clinical studies on serum apolipoproteins in cerebrovascular diseases Cerebral infarction (CI) patients <59 yr old showed

Clinical studies on serum apolipoproteins in cerebrovascular diseases Cerebral infarction (Cl) patients <59 yr old showed different blood apolipoprotein levels depending on artery disease. Cl patients >60 yr old showed. . . specific tendency. The blood levels of apolipoproteins in controls were 135.0. 31.4. 97.5. 4.49. 8.87. and 4.50 mg/d. for Al. AII. B. CII. CIII. and E. resp.. Cl patients with the distribution of a perforating artery (CIPA) exhibited increased levels of . . the acute phase. Cl patients with a distribution of a cortical artery (CICA) showed lower blood levels for Al and AII as 115.4 and 27.3 mg/dL. resp. in acute phase. The level of Al in encephalorrhagia was decreased slightly at 122.9. B. CIII. and E at 114.3. 11.33. and 5.76 mg/dL. resp. Encephalorrhagia in the chronic phase showed lower AI and AII levels as 122.5 and 27.5 mg/dL. resp. Acute phase CICA with diabetes mellitus (DM) showed higher levels of CII at. apolipoprotein levels in CICA were not different between primary and recurrent diseases. Recurrent CIPA showed lower blood levels of AI. AII. CIII. and CIII. CIPA without recurrence showed high CII and CIII levels. The AI level appears to be an atherogenicity. . . . blood apolipoprotein cerebrovascular disease diabetes

Diabetes mellitus applipoproteins of blood serum of humans with cerebrovascular diseases and)

IT Lipoproteins

L1 ANSWER 92 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:585511 Document No. 117:185511 Angiotensin AT2 receptors regulate
cerebral blood flow in rats. Stomberg. Christer: Naveri. Liisa: Saavedra.
Juan H. (Lab. Clin. Sci.. Natl. Inst. Ment. Health. Bethesda. MD. 20892.
LISA). NeuroReport. 3(8). 703-4 (English) 1992. CODEN: NERPEZ. ISSN:

1959-4965.
Large cerebral arteries have been reported to contain angiotensin receptors that are exclusively of the AT2 subtype. The effect of the AT2 receptors that are exclusively of the AT2 subtype. The effect of the AT2 was measured by using a laser-doppler flowmeter. PO 123319 (1-10 mg/kg) dose-dependently inhibited the increase in CBF, when the blood pressure was increased by a norepinephrine infusion. However, PD 123319 did not alter baseline CBF at normal blood pressures. Therefore PD 123319 appears to interfere with the autoregulatory mechanisms of CBF. The participation of AT2 receptors in the regulation of CBF confirms a physiol, role for this receptor subtype, and may give clues for future treatment of various cerebrovascular disorders.

. regulation of CBF confirms a physiol, role for this receptor subtype, and may give clues for future treatment of various cerebrovascular disorders.

Receptors

RL: BIOL (Biological study)
(angiotensin II AT2. cerebral blood flow regulation

ANSWER 93 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) RL: BIOL (Biological study)
(apo-. A-1, of blood serum of humans with cerebrovascular diseases and diabetes) Lipoproteins
RL: BIOL (Biological study)
(apo-, A-II, of blood serum of humans with cerebrovascular diseases and diabetes)

Lipoproteins
RL: BIOL (Biological study)
(apo-, B. of blood serum of humans with cerebrovascular diseases and diabetes)

diseases and ondeces)
Lipoproteins
RL: BIOL (Biological study)
(apor. C-Il. of blood serum of humans with cerebrovascular diseases and diabetes)

Lipoproteins
RL: BIOL (Biological study)
(apo., C-III, of blood serum of humans with cerebrovascular diseases and diabetes)

Lipoproteins

Lipoproteins
RL: BIOL (Biological study)
(apo-. E. of blood serum of humans with cerebrovascular
diseases and diabetes)

IT Brain, disease (cerebrovascular, apolipoproteins of blood serum of humans

- L1 ANSWER 94 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1992:212340 Document No. 116:212340 Apolipoprotein levels in preeclamptic pregnancies. Kobayashi. Shinichi: Tanaka. Masanobu: Masaki. Kazuo: Hirakawa. Shun: Monose. Kazuo (Sch. Med., Toho Univ., Tokyo. Japan). Nippon Sanka Fujinka Gakkai Zasshi. 44(2). 223-8 (Japanese) 1992. CODEN: NISFAY. ISSN: 0300-9165.

 AB Lipportotein is known to increase during pregnancy but the factors responsible for the change have not been established. In addin., the lipportotein concn. in preeclamptic pregnancy is higher than in normal pregnancy. The apolipoproteins are an important determinant of metab. and the structure of plasma lipportoteins. In normal pregnancies. nonpregnancies and preeclamptic pregnancies the levels of blood apolipoproteins AI. AII. B and E were detd. by TIA methods. In normal pregnancies, the concns. of apolipoproteins AI. AII. B and E were detd. by TIA and 6.8 mg/dl. resp. In the nonpregnancies. the concns. of apolipoproteins AI. AII. B and E were 135.6 mg/dl. (128.6 mg/dl.). And 4.4 mg/dl. resp. In the preeclamptic pregnancy the concns. of apolipoproteins AI. AII. B and E were 135.6 mg/dl. (n = 5), 30.8 mg/dl., 76.0 mg/dl., and 4.4 mg/dl. resp. In the preeclamptic pregnancy the concns. of apolipoproteins AI. AII. B and E were 135.6 mg/dl. (n = 5), 30.8 mg/dl., 76.0 mg/dl., and 4.4 mg/dl. resp. In the preeclamptic pregnancy the concns. of apolipoproteins AI. AII. B and E were 135.6 mg/dl. (n = 5). 30.8 mg/dl. resp. The concn. of apolipoprotein B in preeclamptic pregnancy was higher and apolipoprotein E was lower than in normal pregnancies. Thus, the measurement of apolipoprotein is useful for the evaluation of preeclamptic pregnancy.

 AB . metab. and the structure of plasma lipoproteins. In normal pregnancies, nonpregnancies and preeclamptic pregnancy as higher and apolipoprotein E was lower than in normal pregnancies. Thus, the measurement of apolipoproteins AI. AII. B and E were 64d. by TIA methods. In normal pregnancies and preeclamptic pregnancy to the concn

- L1 ANSWER 96 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1992.99181 Document No. 116:99181 Effects of halothane in low concentrations on cerebral blood flow. Cerebral metabolism. and cerebrovascular autoregulation in the baboon. Bruessel, Thomas: Fitch. William; Brodner. Gerhard: Arendt. Irena; Van Aken. Hugo (Klin. Poliklin. Anaesthesiol. Oper. Intensivmed., Westfael. Wilhelms-Univ., Muenster. 4400. Germany). Anesthesia & Analgesia (Baltimore. MD. United States). 73(6). 758-64 (English) 1991. CODEN: AACRAT. ISSN: 0003-2999.

 AB Halothane in anesthetic concrs. caused cerebral vasodilatation and decreases cerebral oxygen consumption (CNRO). The purpose of this study was to evaluate cerebral blood flow (CF) and (CNRO) ananges assocd. with low concrs. of halothane. In 8 normoventilated baboons with background anesthesia maintained with phencyclidine and nitrous oxide. CBF and CNRO were studied during the administration of end-tidal concrs. of halothane (0.12.3 0.25. 0.375. 0.5, 0.75. and 1.0 vol.%). Arterial blood pressure was supported by an infusion of angiotensin II amide at 0.75 and 1.0 vol.% of halothane to maintain an adequate cerebral perfusion pressure. In addn. cerebrovascular autoregulation was tested before and during the administration of 0.375. 0.75, and 1.0 vol.% of halothane. Cerebrovascular autoregulation was assessed by observing the response of GBF to an acute increase in mean arterial pressure produced by angiotensin. (RNO decreased as the concr. of halothane was increased. At low halothane concrs. (0.125-0.375 vol.%). CBF decreased: however, at concrs. above 0.375 vol.%. CBF increased with a decrease in cerebrovascular resistance. Autoregulation was intact during 0.375 vol.% of halothane in low concentrations on cerebral perfusion pressure. suggesting impaired autoregulation.

 Effects of halothane in low concentrations on cerebral blood flow, cerebral metabolism, and cerebrovascular autoregulation in the baboon

 - beboom

 . . . concns. of halothane (0.12.3 0.25, 0.375, 0.5, 0.75, and 1.0 vol.%). Arterial blood pressure was supported by an infusion of angiotensin III amide at 0.75 and 1.0 vol.% of halothane to maintain an adequate cerebral perfusion pressure. In addn. cerebrovascular autoregulation was tested before and during the administration of 0.375, 0.75, and 1.0 vol.% of halothane. Cerebrovascular autoregulation was assessed by observing the response of CBF to an acute increase in mean arterial pressure produced by angiotensin. . . At low halothane concns. (0.125-0.375 vol.%). CBF decreased; however, at concns. above 0.375 vol.%. CBF increased with a decrease in cerebrovascular resistance. Autoregulation was intact during 0.375 vol.% of halothane, but with 0.75 and 1.0 vol.% of halothane. CBF was passively. . . halothane brain circulation oxygen; cerebrovascular autoregulation halothane
 - autoregulation halothane
 - autoregulation naturals.
 Anesthetics
 (halothame, cerebral circulation and metab. and cerebrovascular autoregulation response to low concns. of)
 Brain. disease
 (cerebrovascular, halothame-induced. autoregulation impairment in relation to) ΙT

- L1 ANSWER 95 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1992:166025 Document No. 116:166025 The lipoxygenase inhibitor phenidone protects against proteinuria and stroke in stroke-prone spontaneously hypertensive rats. Munsiff, Amar V.: Chander, Praveen N.: Levine. Seymour: Stier, Charles T. Jr. (Dep. Pharmacol., New York Med. Coll., Valhalla. MY. 1095, USA). American Journal of Hypertension, 5(2), 56-63 (English) 1992. COOEN: ALMYE6. ISSN: 0895-7061.

 AB The present study examd. whether the dual cyclooxygenase/lipoxygenase inhibitor phenidone would protect stroke-prone spontaneously hypertensive rats (SMRSP) from stroke and hypertensive renal disease. Vehicle-treated SMRSP fed stroke-prone rodent diet and 1% saline, exhibited severe systolic blood pressure elevation (261 mmHyg), market proteinuria (90 mg/day), and stroke, with an av. age at death of 14 kk. In a second group of six saline-loaded SMRSP, treatment with phenidone (60 mg/kg/day) was started at 8.4 kk of age. Depsite establishment of severe hypertension in this group (274 mmHyg), proteinuria remained at basal levels (28 mg/day). and sright of stroke were absent through at least 16 kk of age. Phenidone treatment also prevented the declines in body wt. and food intake obsd. in vehicle-treated SMRSP, and maintained urine vol. and saline intake. Serum 12-hydroxyelcosaterzenoric acid (12-HETE) generation was significantly inhibited >50% in incubates of whole blood from phenidone-treated SMRSP. It has been previously shown that agents which interfere with the renin-angiotensin system afford protection from renal and cerebrovascular injury in saline-loaded SMRSP; cyclooxygenase inhibition alone will hasten the onset of these pathol. changes. Whether phenidone-treated SMRSP. It has been previously shown that agents which interfere with the renin-angiotensin system afford protection from renal and cerebrovascular injury in saline-loaded SMRSP; cyclooxygenase inhibition alone will hasten the onset of these pathol. changes. Whether phenidone, which has been reported to a

ANSWER 96 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

rculation
(systemic. halothane effect on, cerebrovascular
autoregulation in relation to)

ISI-67-7, Halothane
RL: BIOL (Biological study)
(cerebral circulation and metab. and cerebrovascular
autoregulation response to low concns. of)

10/03.

11 ANSWER 97 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:35134 Document No. 116:35134 Endothelin-1 and big endothelin cause subarachmoid heaporthage in the anesthetized rabbit.

Huneidi. A. Hamid S.: Thienermann. Christoph; Lidbury. Paul S.: D'Orleans-Juste. Pedro: Anggard, Erik E.: Afshar, Farhad: Vane, John R. (Med. Coll.). St. Bartholomew's Hosp.. London. ECLIH 680. UK). Journal of Cardiovascular Pharmacology, 17(Suppl. 7). S492-S495 (English) 1991. CODEN: LOPCOT. ISSN: 0160-2446-lin-1 (ET-1) (1 mmol/kg) or human big endothelin-1 (b-ET-1; 3 mmol/kg) into anesthetized rabbits produced a rise in left ventricular systolic pressure (LVSP) and caused subarachmoid heaporhage (SAH) in 75 and 88% of the expts. resp. In all animals, the SAH occurred in the subarachmoid space around the distal part of the basilar artery complex. The cyclooxygenase inhibitor indomethacin (5 mg/kg i.v.) potentiated the pressor effect of both peptides. and all animals pretreated with indomethacin prior to ET-1 or b-ET developed SAH. In contrast, rabbits treated with vehicle (saline), indomethacin dlone, or the carboxy-terminal fragment of b-ET (CT 22-38; 3 mmol/kg i.a.) developed neither a rise in LVSP nor SAH. A rise in blood pressure alone is unlikely to account for the SAH brought about by the peptides for angiotensin II (1 mmol/kg/ami for 30 min) produced a greater increment in LVSP than ET-1 or b-ET. but did not cause SAH. In addin. there was no correlation between the rise in LVSP produced by ET-1 or b-ET and the severity of the SAH.

Lindhelin-1 and big endothelin-1 (b-ET-1; 3 mmol/kg) into anesthetized rabbit produced a rise in left ventricular systolic pressure (LVSP) and caused subarachmoid hemorrhage (SAH) in 75 and 88x of the expts. resp. In all animals, the SAH occurred in the subarachmoid space around. SAH. A rise in blood pressure alone is unlikely to account for the SAH brought about by the peptides for angiotensin II (1 mmol/kg/min for 30 min) produced a greater increment in LVSP than ET-1 or b-ET. but did not cause SA

(subarachnoid hemorrhage induction by endothelin-1 and big endothelin modulation by)

ΙT Meninges

(diseases, subarachnoid hemorrhage, endothelin-1

and big endothelin induction of)

Blood pressure
(systolic. subarachnoid hemorrhage induction by endothelin-1 and big endothelin independent of)
120796-97-6. Endothelin-38 (human) 123626-67-5. Endothelin-1 RL: BIO. (Biological study)
(subarachnoid hemorrhage induction by)

L1 ANSWER 98 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:15600 Document No. 116:15600 Cerebrovascular effects of
angiotensin converting enzyme inhibition involve large artery dilatation
in rats. Postiglione. Alfredo: Bobklewicz. Teresa: Vinhold: Pedersen.
Erik; Lassen. Niels A.: Paulson. Dlaf B.: Barry, David I. (Neurobiol). Res.
Group. Rigshosp.. Den.). Stroke. 22(11). 1363-8 (English) 1991. CODEN:
SJCCA7. ISSN: 0039-2499.

Erik; Lassen, Niels A.; Paulson, Olaf B.; Barry, David I. (Neurobiol, Res. Group, Rigshosp., Den.). Stroke, 22(11), 1363-8 (English) 1991. CODEN: SDCA7. ISSN: 0039-2499.

The aim of the study was to selectively examine the effects of converting enzyme inhibition on the large brain arteries by using concomitant inhibition of Carbonic anhydrase to cause severe dilatation of mainly parenchymal resistance vessels. Cerebral blood flow was measured using the xenon-133 injection technique in three groups of Wistar rats either during carbonic anhydrase inhibition followed by converting enzyme inhibition with captopril 40 min later (treatment B), or during carbonic anhydrase inhibition followed by converting enzyme inhibition 20 min and the carbonic anhydrase inhibition preceded by converting enzyme inhibition 20 min real residence of the carbonic anhydrase and the carbonic anhydrase inhibition of carbonic anhydrase inhibition 20 min at an av. of 220 mL/100 g/min; flow remained stable until at least 60 min. After treatment 8, cerebral flow increased by a further 17.4%, from an av. of 219 mL/100 g/min in on av. of 257 mL/100 g/min in that the carbonic anhydrase inhibition and av. of 238 mL/100 g/min, with flow from 20 to 60 min always being higher (from 5% to 17%) than during carbonic anhydrase inhibition alone. Thus the admi. Inhibition of converting enzyme resulted in higher cerebral blood flow than during inhibition of carbonic anhydrase along. These results suggest that converting enzyme inhibition reduced resistance of large brain arteries and support the hypothesis that there is some angiotensin II-induced tone in large cerebral arteries.

Cerebrowascular effects of angiotensin converting enzyme inhibition reduced resistance of large brain arteries and support the hypothesis that there is some angiotensin II-induced tone in large cerebral arteries.

ACC inhibition cerebrovascular system artery dilation: angiotensin converting enzyme inhibition brain circulation ACE inhibition 59-66-5

RL: BIOL (Biological study)

\$9-66-5
RL: BIOL (Biological study)
(cerebrovascular effects of angiotensin converting enzyme
inhibition after carbonic anhydrase inhibition by, large artery
dilation in)
(62571-86-2. Captopril
RL: BIOL (Biological study)
(cerebrovascular effects of angiotensin converting enzyme
inhibition by, large artery dilation in)
9015-82-1. Angiotensin converting enzyme
RL: BIOL (Biological study)
(inhibitors of, cerebrovascular effects of, large artery
(inhibitors of, cerebrovascular effects of, large artery

(inhibitors of, cerebrovascular effects of, large artery dilation in)

L1 ANSWER 97 OF 123 CAPLUS COPYRIGHT 2003 ACS

L1 ANSWER 99 OF 123 CAPLUS COPYRIGHT 2003 ACS 1991:624184 Document No. 115:224184 Characterization of ATZ angiotensin II receptors in rat anterior cerebral arteries. Tsutsumi, Keisuke; Saavedra, Juan M. (Lab. Clin. Sci.. Natl. Inst. Ment. Health. Bethesda. MD. 20892. USA). American Journal of Physiology. 261(3. Pt. 2). H667-H670 (English) 1991. CODEN: AJPHAP. ISSN: 0002-9513.

Physiology, 261(3, Pt. 2), 14667-14670 (English) 1991. CODEN: AJPHAP.

ISSN: 0002-9513.
Quant. autoradiog. using the agonist 1251-Sarl-antiotensin II was used to localize and characterize angiotensin II (AT) receptors in the anterior cerebral artery of the male rat. This artery showed a moderately high no. of AT receptors. localized throughout the arterial wall. The no. of receptors was higher (125 fmol/mg protein) in arteries from young 2-wk-old rats compared with those in adult 8-wk-old rats (36 fmol/mg protein). In the anterior cerebral artery, AT binding was insensitive to displacement with the selective ATI antagonist Dup 753 but was readily displaced by the selective AT2 antagonist CGP-42112 A nicotinic acid-Tyr-(N.SIGNA-benzyloxycarbonyl-Arglys-His-Pro-11e-OH) (a concn. eliciting 50% of max. inhibition: 6. times. 10-1-N). This indicated that the AT receptors in the cerebral artery were of the AT2 subtype. AT may exert its effects on cerebral circulation by stimulation of AT2 receptors, and these receptors may play a role during cerebrovascular development.

Characterization of AT2 angiotensin II receptors in rat anterior cerebral arteries Quant. autoradiog. using the agonist 1251-Sarl-antiotensin II was used to localize and characterize angiotensin II (AT) receptors in the anterior cerebral artery of the male rat. This artery showed a moderately high no. of AT. . . . may exert its effects on cerebral circulation by stimulation of AT2 receptors. and these receptors may play a role during cerebrovascular development.

Cevelopment. . animalism (angiotensin II receptor of cerebral artery in) Receptors

Rt. BIOL (Biological study)

Receptors
RL: BIOL (Biological study)
(for angiotensin II. AT2. of cerebral artery.
characterization of)

IT Artery, composition
(cerebral, anterior, angiotensin II receptor of, characterization of)

11128-99-7. Angiotensin II

BIOL (Biological study)
(receptor for, of cerebral artery, characterization of)

L1 ANSWER 100 OF 123 CAPLIS COPYRIGHT 2003 ACS
1991:490241 Document No. 115:90241 Alterations of monoamine metabolites and neurotransmitters in cerebrospinal fluid of patients after subarachnoid hemorrhage. Sato. Kazuei (Neurol.) Inst...
Tokyo Momen's Med. Coll., Tokyo, 162. Japan. Tokyo Joshi Ika Daigaku Zasshi, 61(5), 381-91 (Japanese) 1991. CODEN: TJIZAF. ISSN: 0040-9022.
AB Sequential changes in adrenaline (AD). noradrenaline (NA). dopamine (DA). serotonin (SHT) and their metabolites DOPAC. MHRG. HVA, 5-HIAA and other neuropeptides. GABA, somatostatin-like immunoreactivity (SS). TRH. arginine vasopressin (AV). angiotensin I and II in CSF were confirmed by high performance liq. chromatog. (HPLC) or RIA (RIA) or radio receptor assay (RRA) in 24 patients with SAH 3 times during the course. in the acute stage (0-3 days after SAH). In the subacute stage (4-19 days), and in the chronic stage (after 20 days). Sequential changes in metabolites. neurol. status, and neuroradiog. findings of patients were evaluated. Changes in CSF levels of Substances differed variously after SAH. For example. CSF levels of AD. NA. MHRG. GABA. SS. VP. and AG II were high and those of HVA. 5-HIAA and TRH were low in the acute stage, and gradually converged to the normal range with time. NA. GABA. SS. TRH, and VP were produced mainly in the hypothalamus, and different changes of these substances were considered to be the result of differential activation of brainstem-hypothalamic axis after SAH. A relationship was noted between changes in CSF levels and neurol. status, but not between CSF levels of substances and vol. of clot in subarachnoid space. CSF MHPG levels of the "Spasm" group were significantly higher than the "No spasm" group after 4th day after ictus and CSF NA levels did not differe between the 2 groups, but NA metabolite patimay was therefore considered in the "Spasm" group after 4th day after ictus and CSF NA levels did not differe between the 2 groups, but NA metabolite patimay was therefore considered in the "Spasm" grou

hemorrhage

were confirmed by high performance liq. chromatog. (HPLC) or RIA
(RIA) or radio receptor assay (RRA) in 24 patients with
subarachnoid hemorrhage (SAH) after aneurysmal rupture.
Cerebrospinal fluid (CSF) samples were collected from patients with SAH 3
times during the course. in.
cerebrospinal fluid monoamine metabolite subarachnoid
hemorrhage: neurotransmitter cerebrospinal fluid
subarachnoid hemorrhage
Cerebrospinal fluid
(monoamine metabolites and neurotransmitters in. after

ST

11

(monoamine metabolites and neurotransmitters in. after

subarachnoid hemorrhage. in humans)

IT

(diseases, subarachnoid hemorrhage, monoamine

ANSWER 101 OF 123 CAPLUS COPYRIGHT 2003 ACS
91:400667 Document No. 115:667 The influence of a cryogenic brain injury on the cerebrovascular response to isoflurane in the rabbit. Ramani. R.: Todd. Hichael H.; Warner. David S. (Coll. Med., Univ. Iowa. Iowa City. IA. USA). Journal of Cerebral Blood Flow and Metabolism. 11(3). 388-97 (English) 1991. CODEN: JCBMON. ISSN: 0271-678X.
To det. If an acute neurol. injury alters the cerebrovascular response to isoflurane. rabbits were anesthetized with morphine/N20 and mech. ventilated. Group I animals served as controls and received no injury. In Groups 2 and 3 a 30-s cryogenic injury was produced in the left parietal region using liq. N2 poured into a funnel affixed to the surface of the skull. Regional cerebral blood flow (CBF) was measured using microspheres. In Groups 2 and 3. flow was dedt. before and 30 and 90 min after injury. After the 90-min data were collected. 1% (apprxeq.1.0 MAC) isoflurane was administered to uninjured rabbits in Groups 1 and to lesioned rabbits in Group 3. A mean arterial pressure of gtoreq. 80 mm Hg was maintained during isoflurane administration by an infusion of angiotensin II. In Group 1. 2% isoflurane produced bilaterally sym. increases in hemispheric CBF. From 76 to 150 mL/100 g. CBF in the hindbrain increased from 91 to 248 mL/100 g.cntdot.min. Group 3. 2% isoflurane changed CBF in the lesioned hemisphere from 56 to only 77 mL/100 g.ontdot.min. while in the contralateral hemisphere. CBF rose from 66 to 97 mL/100 g.ontdot.min. Thus. a cryogenic injury attenuates the normal CBF response to a volatile anesthetic. both in the damaged hemisphere swell as in apparently uninjured regions distant from the injury focus. A similar cryogenic injury abolished the CBF response to denging PaCO2 in the injured hemisphere. but not in the contralateral hemisphere or the cerebellum. The CBF effects of isoflurane may be mediated via intermediary neurogenic injury abolished the CBF response to denging PaCO2 in the injured injury abolished or or or or or

The CBF effects of isoflurane may be mediated via intermediary heurogenic and/or blochem, process. The influence of a cryogenic brain injury on the cerebrovascular response to isoflurane in the rabbit. To det. if an acute neurol. injury alters the cerebrovascular response to isoflurane, rabbits were anesthetized with morphine/N2O and mech, ventilated. Group lanimals served as controls and received no. in Group 3. A mean arterial pressure of .gtoreq.80 mm Hg was maintained during isoflurane administration by an infusion of angiotensin II. In Group 1. 2% isoflurane produced bilaterally sym. increases in hemispheric CBF. from 76 to 150 mL/100 g. CBF in. .

Page 45

L1 ANSWER 100 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) metabolites and neurotransmitters in cerebrospinal fluid after. in

humans) 50-67-9. Serotonin. biological studies 51-41-2. Noradrenaline 51-43-4. Adrenaline 51-61-6. Dopamine. biological studies 54-16-0. 5-Hydroxy indo1e-3-acetic acid. biological studies 56-12-2. gamma. -Aminobutyric acid. biological studies 102-32-9. 3. 4-Dihydroxyphenyl acetic acid 113-79-1. Arginine-vasopressin 306-08-1. Homovantlic acid 534-82-7 9041-90-1. Argiotensin I 11128-99-7. Angiotensin II 24305-27-9. TRH 51110-01-1. Somatostatin

SCMatoscal III
RL: BIOL (Biological study)
(in cerebrospinal fluid. after subarachnoid
hemorrhage. in humans)

L1 ANSWER 102 OF 123 CAPLUS COPYRIGHT 2003 ACS
1990:565426 Document No. 113:165426 Aza-2-bicyclooctane[2.2.2]carboxylic
acids. and pharmaceutical compositions containing them. for treatment of
arteritis and disorders of the microcirculation and of the vascular wall.
Telsseire, Bernard (ADIR et Cie., Fr.). Fr. Demande FR 2635684 A1
19900302, 14 pp. (French). CODEN: FRXXBL. APPLICATION: FR 1988-11157

The title compds. I [A = vinylene or dimethylene: q = 0.1; R = lower alkyl capable of carrying amino: X = S and Rl = H; or X = NH and Rl H or CH(COR2)R3 (R2 = OH, lower alkoy; R3 = H, linear or branched alkyl, cycloalkyl, or phenylalkyl, etc.)] are provided for treatment of arteritis, esp. of the lower limbs, as well as for treatment of disorders in cerebral circulation, diabetic retinopathy, migraine, etc. Thus, normal and ischemic (ligatured) cremaster muscle prepns, were either untreated or treated with I. There was no difference in red-cell velocity or vessel diam. In normal untreated or treated prepns,: in prepns, with induced ischemia the mean diam, of the arterioles was improved in treated animals in comparison to controls, and red-cell velocity was normalized by treatment for 21 days. Among treated animals, red-cell velocity and blood flow measured 7 days after ligature did not show significant differences from values obtained for nonischemic prepns. A compressed tablet formulation (1000 tablets) contained (S) [(S)-ethoxycarbonyl-i-phenyl-3-propyl amino)-2-oxo-1-propyl]-2-carboxy-3-(S)-azo-2-bicyclo[2,2,2]octane 300 mg, hydroxypropylcellulose 2, wheat starch 10, lactose 100. Mg stearate 3, and tale 3 g. Senescence (disorder, capebroyaccular, avabable acatalog and the starch and the sentence of the

Senescence (disorder, cerebrovascular, azabicyclooctane carboxylic acids

(disorder, Cereprovasturar, azabicycloscuma carbody) a for treatment of)
9041-90-1, Angiotensin I 11002-13-4, Angiotensinogen (protein remin substrate) 11128-99-7, Angiotensin II RL: BIOL (Biological Study)
(artery contraction induction by, azabicyclooctane carboxylic acids for microcirculation disorder treatment effect on)

L1 ANSWER 103 OF 123 CAPLUS COPYRIGHT 2003 ACS

Wallace G. Jr., Sealey, Jealey Jean Lr. Cumc. New York, MY. 10021, USA). Laragh, John H. (Cardiovasc. Cent., Cumc. New York, MY. 10021, USA). Hypertension, 15(3), 318-26 (English) 1990. CODEN: HPRTDN. ISSN: 0194-911X. The effects were studied of regular diet (0.3% NaCl/1.1% potassium), high sodium diet (4% NaCl/0.75% potassium), or high sodium and high potassium diet (4% NaCl/0.75% potassium) or blood pressure. plasma renin activity, renal and cerebrovascular lesions, and incidence of stroke and mortality in male stroke-prone spontaneously hypertensive rats (SNRSP). In the first 4 wk, the rise in blood pressure was higher in high NaCl than in high NaCl/high potassium or regular diet groups. By 8 and 12 wk, the blood pressure in all 3 groups was similar. After 4 wk of diet, plasma renin activity was similar in the three groups and were not related to sodium excretion. After 8 wk. plasma renin activity was increased only in the high NaCl group, and by 12 wk plasma renin activity was increased only in the high NaCl group, and by 12 wk plasma renin activity was increased only in the high NaCl group by 8 wk of diet. At 12 wk, renal vascular damage index was higher in the high NaCl group than in the high NaCl group than

ANSWER 104 OF 123 CAPLUS COPYRIGHT 2003 ACS
3:211856 Document No. 112:211856 Fulminant hypertension in transgenic rats harboring the mouse Ren-2 gene. Mullins, J. J.; Peters, J.; Ganten, O. (Dep. Pharmacol., Univ. Heidelberg, Heidelberg, De6900, Germany).
Nature (London. United Kingdom). 344(6266), 541-4 (English) 1990. CODEN: NATURS. ISSN: 0028-0836.
Primary hypertension is a polygenic condition in which blood pressure is enigmatically elevated; it remains a leading cause of cardiovascular disease and death due to cerebral hemorrhage, cardiac failure, and kidney disease. The genes for several of the proteins involved in blood pressure homeostasis were cloned and characterized. including those of the renin-anglotensin system, which plays a central part in blood pressure control. The mouse Ren-2 renin gene was introduced into the genome of the rat and expression of this gene caused severe hypertension. These transgenic animals represent a model for hypertension in which the genetic basis for the disease is known. Further, as the transgenic animals do not overexpress active renin in the kidney and have low levels of active renin in their plasma, they also provide a new model for low-renin hypertension.

RL: PRP (Properties)

(in transgenic fulminant hypertensive rats)

ANSWER 105 OF 123 CAPLUS COPYRIGHT 2003 ACS 90:91660 Document No. 112:91660 The cerebral pressure - flow relationship during 1.0 MAC isoflurane anesthesia in the rabbit: the effect of different vasopressors. Patel. P. M.; Mutch. W. A. C. (Fac. Med., Univ. Manitoba, Winnipeg, MB, Can.). Anesthesiology. 72(1), 118-24 (English) 1990. CODEN: ANESAV. ISSN: 0003-3022.

The effects of different vasopressors on the cerebral pressure-flow relationship during 1.0 MAC isoflurane anesthesia were studied. Mean arterial pressure (MAP) was increased by one of 3 vasopressors [angiotensin II (AT). norepinephrine (NE). or phenylephrine (PE) in 3 groups of New Zealand white rabbits. Regional cerebral blood flow (CBF) was measured at 5 intervals by the injection of radioactive microspheres at a stable 2.058 (1.0 MAC) end-tidal isoflurane concn. (Daseline) and following elevation of MAP by 20, 40, 60, and 80% above baseline MAP with either AT. NE. or PE. Baseline MAP was the same in all groups. No differences in MAP were seen between groups when MAP was elevated from 20 to 80% above baseline. Normocaphia (PaCO2 35.8-38.2 mmHg) was maintained throughout. Total CBF (CBF), hemispheric CBF (CBF), and posterior fossa (cerebellum and brain stem) CBF (pCBF) were detd. Baseline tCBF, hCBF, and pCBF were similar in all groups. For all regions examo. the slope of the pressure-flow curve was less steep when MAP was elevated with AT vs. NG or PE. There was no difference in slope between the NE and PE groups for any region. Thus, either NE and PE may indirectly result in cerebral vasodilation or AT has intrinsic cerebral vasoconstrictive effects during 1.0 MAC isoflurane anesthesia in the rabbit. The choice of vasopressor critically influences the interpretation of whether cerebrovascular autoregulation is intact during isoflurane anesthesia in the rabbit. Per hotoce of vasopressor critically influences the interpretation of whether cerebrovascular autoregulation is intact during isoflurane anesthesia.

If 51-41-2. Norepinephrine 59-42-7, Phen

anesthesia. 51-41-2. Norepinephrine 59-42-7. Phenylephrine 11128-99-7. Angiotensin II RL: BIOL (Biological study)

(brain pressure-flow relationship response to, during anesthesia)

- L1 ANSWER 106 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1989:608991 Document No. 111:208891 Effects of ONO-3708. an antagonist of
 the thromboxane A2/prostaglandin endoperoxide receptor. on blood vessels.
 Kondo. Kigen: Seo. Rumi: Omawari. Nagashige: Inawaka. Haruo: Wakitani.
 Korekiyo: Kira. Hetzo: Okegawa. Tadao: Kawasaki. Akiyoshi (Minase Res.
 Inst., Ono Pharm. Co., Ltd., Osaka. 618. Japan). European Journal of
 Pharmacology. 168(2), 193-200 (English) 1989. CODEN: EJPHAZ. ISSN:
 0014-2999.
- Pharmacology. 168(2), 193-200 (English) 1989. CUUEN: CUPHAZ. ISSN: 0014-299.
 The pharmacol. properties of the TXA2/prostaglandin endoperoxide receptor antagonist CNO-3708 on blood vessels were examd. in vitro and in vivo. CNO-3708 at 10. ma.M. inhibited rabbit aortal contractions induced by TXA2. PGHZ. U-46619. or PGFZ.alpha. without affecting the contractions induced by angiotensin 11. serotonin or norepinephrine.
 ONO-3708 at 1 -100 nm was a competitive inhibitor of the contractile responses of the canine basilar artery to 9.1-epithic-11.12-methanthromboxane AZ (STA2). U-46619 and PGFZ.alpha. and a noncompetitive inhibitor of the contractile responses to 15-hydroperoxyeicosatetraenoic acid (15-HPETE). In vivo ONO-3708 (10 and 100. mu.g/kg/min i.v.) relaxed the constriction of the basilar artery induced by i.v. infusion of STA2 (0.1. mu.g/kg/min) in cats. Infusion of ONO-3708 (10 and 30 mu.g/kg/min i.v.) revented the cerebral vasospasm in a subarachnoid hemorrhage model in dogs. ONO-3708 is a potent antagonist of the TXA2/prostaglandin endoperoxide receptor in vitro and in vivo and may be of therapeutic use in preventing cerebral vasospasms.
- vitro and in vivo and may be of therapeutic use in pretenting excepting exacts as 10 mu.M inhibited rabbit aortal contractions induced by TXA2. PRIZ. U-46619, or PGF2.alpha. without affecting the contractions induced by angiotensin II. serotonin or norepinephrine.

 OND-3708 at 1-100 mM was a competitive inhibitor of the contractile responses of the canine basilar artery. of STAZ (0.1 mu.g/kg/min) in cats. Infusion of OND-3708 (10 and 30 mu.g/kg/min iv.) prevented the cerebral vasospasm in a subarachnoid hemorrhage model in dogs. OND-3708 is a potent antagonist of the TXA2/prostaglandin endoperoxide receptor in vitro and in vivo and may.

- ANSWER 107 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued effect on, in anesthesia, blood pressure in relation to) (Continued)

- Blood vessel

 (constriction of, by angiotensin II and
 norepinephrine, in anesthesia, brain circulation in relation to)

 Circulation
 (regional, of brain, angiotensin II and
 norepinephrine effect on, in anesthesia, blood pressure in relation to)
 51-41-2. Norepinephrine 11128-99-7, Angiotensin II
 R. BIOL (Biological Study)
 (brain circulation response to, in anesthesia, blood pressure in
 relation to) relation to)

- ANSWER 107 OF 123 CAPLUS COPYRIGHT 2003 ACS
 39:509555 Document No. 111:109555 Effects of two hypertensive agents.
 norepinephrine and angiotensin II, on the relation
 between arterial pressure and regional cerebral blood flow in conscious
 and anesthetized rabbits. Reynier-Rebuffel, A. H.; Aubineau. P.;
 Issertial. O.; Seylaz, J. (Lab. Physiol. Physiopathol. Cerebrovasc. Univ.
 Paris VII. Paris. 75010, Fr.). Circulation et Netabolisme du Cerveau.
 6(1), 47-55 (French) 1989. COURI: CMCEIN. ISSN: 0264-6900.
 Regional cerebral blood flow reactivity to moderate hypertension induced
 by i.v. perfusion of norepinephrine or angiotensin II
 was compared in unanesthetized or anesthetized rabbits. The reactivity to
 each hypertensive drug varied from one region to another. Compared to
 control. norepinephrine induced decreases in local flow of 4 out of 11
 structures examd. whereas angiotensin increased flow in the caudate
 nucleus. Local reactivity depended on the hypertensive agents used.
 Generally. In both anesthetized and unanesthetized animals. norepinephrine
 induced greater increases in cerebrovascular resistance than
 angiotensin. Reactivity was strongly modified by anesthesia. Under
 anesthesia a correlation was obsd. between regional cerebral blood flow
 and increases in blood pressure which did not exist in the unanesthetized
 group. Evidently, the mechanisms regulating regional cerebral blood flow
 during identical rises in blood pressure are not related to the peripheral
 hypertensive action of norepinephrine and angiotensin. This observation.
 together with the regional differences in reactivity found, both in the
 presence and the absence of anesthesia. suggests that these agents may
 exert specific effects on the cerebral circulation, more complex than
 myogenic or metabolic effects.

 If fects of two hypertensive agents, norepinephrine and angiotensin
 II, on the relation between arterial pressure and regional
 cerebral blood flow in conscious and anesthetized rabbits.
 Regional cerebral blood flow reactivity to moderate hypertensi

 - Anesthesia

estnessa (angiotensin II and norepinephrine effect on brain circulation and blood pressure in)

Circulation and blood pressure (anglotensin II and norepinephrine effect on, in anesthesia, brain circulation in relation to)

(Circulation of, angiotensin II and norepinephrine

- L1 ANSMER 108 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1989:112566 Document No. 110:112566 Cerebrovascular
 angiotensin II receptors in spontaneously hypertensive
 rats. Grammas. Paula; Diglio. Clement: Giacomelli, Filiberto; Wiener.
 Joseph (Sch. Med., Wayne State Univ., Detroit, MI, USA). Journal of
 Cardiovascular Pharmacology, 13(2), 227-32 (English) 1989. CODEN: JCPCOT.
 ISSN: 0160-2446.

 AB The objective of this study was to characterize angiotensin
 II (AlI) receptors in cerebral capillary endothelium and
 to exam. whether the first step in AII responsiveness, namely
 AII receptor binding, is aberrant in cerebral microvessels
 obtained from adult spontaneously hypertensive rats (SHR). The binding of
 [3H]angiotensin II to isolated cerebrocortical
 microvessels from Sprague-Dawley, Mistar-Nyoto, and SHR rats was used to
 characterize AII receptors on these vessels. Kinetic expts.
 yielded an equil. derived Kd (dissoon, rate const./assoon, rate const.)
 very close to that obtained from Scatchard anal. of sath. binding data.
 Thus, the two normotensive control strains exhibited comparable
 AII receptor affinity and binding capacity. In contrast, expts.
 with microvessels from adult SHR indicated a higher Bmax for AII
 receptors relative to controls. A Holwogh expts. assessing functional
 endothelial alterations in the SHR to AII remain to be
 performed, the increase in AII receptor no. suggests that an
 abnormality in vascular AII responsiveness may play an important
 role in this model of hypertension.

 IC Cerebrovascular angiotensin II receptors in
 spontaneously hypertensive rats

 - role in this model of hypertension. Gerebrovascular angiotensin II receptors in spontaneously hypertensive rats. The objective of this study was to characterize angiotensin II (AII) receptors in creerbrail capillary endothelium and to exam. Whether the first step in AII responsiveness, namely AII receptor binding, is aberrant in creerbrail microvessels obtained from adult spontaneously hypertensive rats (SNR). The binding of C3Hjangiotensin II to isolated cerebrocortical microvessels from Sprague-Dawley, Wistar-Kyoto, and SNR rats was used to characterize AII receptors on these vessels. Kinetic expts. yielded an equil. Jedrived Kd (dissocn. rate const./assocn. rate const.) very close to that obtained from Scatchard anal. of sath. binding data. Thus, the two nomotensive control strains exhibited comparable. AII receptor affinity and binding capacity. In contrast, expts. with microvessels from adult SNR indicated a higher Bmax for AII receptor relative to controls. Although expts. assessing functional endothelial alterations in the SNR to AII remain to be performed, the increase in AII receptor no. suggests that an abnormality in vascular AII responsiveness may play an important role in this model of hypertension. angiotensin II receptor microvessel hypertension rat Brain (angiotensin II receptors of capillary endothelium
- - (angiotensin II receptors of capillary endothelium of. of spontaneously hypertensive rats)
 - (angiotensin II receptors of cerebral capillary endothelium of spontaneously hypertensive)

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ANSWER 108 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
     eptors
BIOL (Biological study)
(for angiotensin II. of cerebral capillary
endothelium of spontaneously hypertensive rats)
Capillary vessel
(endothelium, angiotensin II receptors of, of brain
of spontaneously hypertensive rats)
Hypertension
      (spontaneous, angiotensin II receptors of cerebral
capillary endothelium in, in rats)
11128-99-7, Angiotensin II
RL: BIOL (Biological study)
      (receptors for. of cerebral capillary endothelial of spontaneously hypertensive rats)
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ANSWER 110 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:448481 Document No. 109:48481 Role of angiotensin in autoregulation of
cerebral blood flow. Paulson. Olaf B: Waldemar, Gunhild: Andersen, Allan
R.: Barry, David I.: Pedersen. Erik V.: Schmidt, Jes F.: Vorstrup, Sissel
(Dep. Neurol., Risshosp., Copenhagen, DK-2100, Den.). Circulation,
Supplement. 77(1). 155-158 (English) 1988. CODEN: CISUAQ. ISSN:
0069-4193.
A Perview with 20 cofe.

0069-4193.
A review, with 39 refs. on evidence supporting the hypothesis that locally produced angiotensin II contributes to cerebrovascular resistance and thus plays a role in autoregulation of cerebral blood flow.
A review, with 39 refs. on evidence supporting the hypothesis that locally produced angiotensin II contributes to cerebrovascular resistance and thus plays a role in autoregulation of cerebral blood flow. of cerebral blood flow.

(circulation of, angiotensin II in autoregulation of)
Circulation

(cerebral, autoregulation of, angiotensin II in)

11128-99-7. Angiotensin II RL: BIOL (Biological study) (cerebral circulation autoregulation by)

- L1 ANSWER 109 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1999:107918 Document No. 110:107918 Enalapril prevents stroke and kidney
 dysfunction in salt-loaded stroke-prone spontaneously hypertensive rats.
 Stier. Charles T. Jr.: Benter. Ibrahim F.: Ahmad. Saleem: Zuo. Hailiu:
 Selig. Nicola: Roethel. Steven: Levine. Seymour: Itskovitz. Harold D.
 (Dep. Pharmacol., New York Med. Coll., Valhalla. NY. 10595. USA).
 Hypertension. 13(2). 115-21 (English) 1989. CODEN: HPRTDN. ISSN:
- Hypertension, 13(2), 115-21 (English) 1989. CODEN: HPRTON. ISSN: 0194-911X.

 The influence of chromic treatment with the angiotensin I converting enzyme (ACE) inhibitor enalapril on blood pressure, kidney function, and survival was examd. in stroke-prone spontaneously hypertensive rats (SHRSP). Male SHRSP that were fed a Japanese rat chow plus a IX NaCI drinking soln. beginning at 7-8 wt of age developed severe hypertension and stroke: 14 of 18 untreated control SHRSP died by 14 wk of age and exhibited evidence of cerebrovascular lesions. When enalapril (15 mg/kg/day) was included in the drinking soln. of 15 SHRSP, blood pressure was initially reduced by only a slight degree, whereas survival improved markedly: only one of 10 SHRSP died before the rest were killed at 18 to 21 wk. The remaining five enalapril-treated SHRSP lived beyond 36 wk and on histol. examn. exhibited no evidence of cerebrovascular lesions. Chromic enalapril treatment also prevented the greater urinary excretion of protein and severe renal lesions obsd. in untreated SHRSP but did not affect urinary salt and water excretion. In anesthetized rats, glomerular filtration rate and tubular reabsorption of water were lower in untreated control SHRSP when compared with enalapril-treated SFRSP. Mean arterial pressure was comparable in both groups. These data support a possible role for ACE inhibition relate to reduced angiotensin II formation, increased tissue kinins, or another mechanism remains to be detd.
- detd. . . . severe hypertension and stroke: 14 of 18 untreated control SHRSP died by 14 wk of age and exhibited evidence of cerebrovascular lesions. When enalapril (15 mg/kg/day) was included in the drinking soln. of 15 SHRSP. blood pressure was initially reduced by. . to 21 wk. The remaining five enalapril-treated SHRSP lived beyond 36 wk and on histol. examm. exhibited no evidence of cerebrovascular lesions. Chronic enalapril treatment also prevented the greater uninary excretion of protein and severe remail lesions obsd. in untreated SHRSP. Whether the protective effects of ACC inhibition relate to reduced angiotensin II formation. increased tissue kinins. or another mechanism remains to be detd.

1988:144167 Document No. 108:144167 Effect of angiotensin
II and peptide Y7 on cerebral and circumventricular blood flow.
II and peptide Y7 on cerebral and circumventricular blood flow.
II and peptide Y7 on cerebral and circumventricular blood flow.
II and peptide Y7 on cerebral and circumventricular blood flow.
Ottawa, ON, KIH 0915. Can.) Peptides (New York, NY, United States), 9(1).
141-9 (English) 1988. CODEN: PPTDD5. ISSN: 0196-9781.

AB The effect of acute i.v. infusion of saline, angiotensin
II. or peptide Y7 on local cerebral blood flow
([14C]lodoantipyrine autoradiog.) in the circumventricular and
nonircumventricular brain regions of conscious rats was examd. No redns.
in brain blood flow (28 regions) were obsd. although angiotensin
II and peptide Y7 infusion elevated arterial blood pressure 15-25%
without influencing heart rate, suggesting an increase in peripheral
resistance. However, local blood flow was dependent on the peptide
infused. During peptide Y7 infusion, blood flow was rather const. in the
20 noncircumventricular regions examd. whereas an increase in blood flow
and a slight decrease in cerebrovascular resistance cocurred in
the circumventricular regions. The area postrema exhibited the most
pronounced changes - an elevation in blood flow of 448 and a redn. in
resistance of 20% in comparison with values for control animals. During
angiotensin II infusion. local cerebral blood flow was
similar to that in controls and local cerebravascular resistance
was elevated. Thus, the local cerebral circulatory response to peptide
administration was dependent on the location of the region examd.
circumventricular or noncircumventricular) and on the vasoactive peptide
infused.
II Effect of angiotensin II and peptide Y7 on cerebral

(circumventricular or noncircumventricular) and on the vasoactive peptide infused. Effect of angiotensin II and peptide YY on cerebral and circumventricular blood flow The effect of acute i.v. infusion of saline, angiotensin II. or peptide YY on local cerebral blood flow ([14C]iodoantipyrine autoradiog.) in the circumventricular and noncircumventricular brain regions of conscious rats was examd. No redns. in brain blood flow (28 regions) were obsd. although angiotensin II and peptide YY infusion elevated arterial blood pressure 15-25% without influencing heart rate. suggesting an increase in peripheral resistance. However. ... was rather const. in the 20 noncircumventricular regions examd. whereas an increase in blood flow and a slight decrease in cerebrovascular resistance occurred in the circumventricular regions. The area postrema exhibited the most pronounced changes - an elevation in blood flow of 44% and a redn. in resistance of 20% in comparison with values for control animals. During angiotensin II infusion. local cerebral blood flow was similar to that in controls and local cerebrovascular resistance was elevated. Thus, the local cerebral circulatory response to peptide administration was dependent on the location of the region. Blood pressure (angiotensin II and peptide YY effect on, brain circulation in relation to)

(circulation of. angiotensin II and peptide YY effect on)

IT Blood vessel

L1 ANSWER 111 OF 123 CAPLUS COPYRIGHT 2003 ACS
(contraction of. of brain, angiotensin II and peptide YY effect on) (Continued) (of circumventricular and noncircumventricular regions, angiotensin II and peptide YY effect on) Brain
(circumventricular organ, circulation of, angiotensin
II and peptide YY effect on)
11128-99-7, Angiotensin II 106388-42-5, Peptide YY
RL: BIOL (Biological Study)
(brain circumventricular and noncircumventricular region circulation response to)

ANSWER 112 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) RL: BIOL (Biological study) (cerebral artery relaxation by, hemolyzate inhibition of)

Page 49

L1 ANSWER 112 OF 123 CAPLUS COPYRIGHT 2003 ACS
1988:144109 Document No. 108:144109 Hemolyzate inhibits cerebral artery relaxation. Toda. Noboru (Dep. Pharmacol.. Shiga Univ. Med. Sci.. Otsu. 520-21. Japan). Journal of Cerebral Blood Flow and Metabolism. 8(1). 46-53 (English) 1988. CODEN. JORNON. ISSN: 0271-678X.

AD In helical strips of dog middle cerebral arteries partially contracted with Mc72.alpha. relaxations induced by angiotensin II. possibly mediated by Mc12, and those induced by CRUR were reversed to a contraction or markedly reduced by treatment with hemolyzate. Which however, attenuated the Mc12-induced relaxation only slightly. The relaxant response of human middle cerebral arterial strips to Mc12 was also suppressed by hemolyzate. Dog and monkey middle cerebral arteries responded to transmural elec. stimulation and nicotine with transient relaxations. which were quite susceptible to tetrodotoxin and hexamethonium, resp.: the relaxations were abolished almost completely by hemolyzate and methylene blue. One the other hand, the relaxant response of dog cerebral arteries to a low concn. of K+ was not influenced by hemolyzate or by methylene blue. but was reversed to a contraction by treatment with ouabain. Relaxations induced by substance P and nitroglycerin-induced relaxation. Hemolyzate: removal of endothelium abolished the relaxation by substance P and nitroglycerin-induced relaxation. Hemolyzate: may interfere with the biosynthesis of Mc12 in the vascular wall, thereby reversing the relaxation induced by angiotensin II and Mc12 to a contraction. Relaxations induced by elec. and chem. stimulation of vasodilator nerves innervating cerebral arteries appear to be elicited by a mechanism dependent on cellular cBMP. Hise that underlying the substance P-induced and nitroglycerin-induced delaxation. These actions of hemolyzate may be involved in the genesis of cerebral vasospasm after subarachnoid hemorrhage.

All helical strips of dog middle cerebral arteries appear to. . the vascular wall, ther

Meninges
(diseases, subarachnoid hemorrhage, vasospasm
after, cerebral artery relaxation by hemolyzate in relation to)
54-11-5, Nicotine 55-63-0, Nitroglycerin 7440-09-7, Potassium,
biological studies III28-99-7, Angiotensin II
33507-63-0, Substance P 42935-17-1, PGH2

- L1 ANSWER 113 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1988:69671 Document No. 108:69671 Cerebrovascular reactivity to
 angiotensin and angiotensin-converting enzyme activity in cerebrospinal
 fluid. Whalley. E. T.: Wahl. M. (Dep. Physiol., Univ. Munich. Munich.
 D-8000/2, Fed. Rep. Ger.). Brain Research. 438(1-2). 1-7 (English) 1988.
 CODEN: BRREAP. ISSN: 0006-8993.
 AB The vasomotor effects of angiotensin I (A I) and angiotensin
 II (A II) were examd. in feline cerebral arteries and
 angiotensin-converting enzyme (ACE) activity was detd. in the vessel wall
 and cerebrospinal fluid (CSF). A II (IO-8-ID-5M) induced concn.-dependent
 contractions of feline pial arteries (resting diam., 98-286. mu. m) in situ
 with a max. of 34x at 10-4M A II. A I produced dose-related contractions
 being approx. 20 times less potent than A II. The action of A I was
 attenuated by the ACE inhibitor captopril (IO-5M). These findings
 demonstrate the presence of ACE activity in the vessel wall and/or its
 surroundings. ACE activity was also found in feline CSF sampled from the
 cisterna cerebello-medullaris. Bradykinin (BK) was broken down and A I
 converted to A II by CSF, both effects being inhibited by captopril. This
 was demonstrated using bioassay and HPLC. Thus. the presence of ACE in
 the vessel wall and CSF is necessary for the conversion of A I to A II.
 Although ACE in CSF is able to degrade BK. it appears not to be important
 for the metab. of BK acting from the perivascular side of pial arteries in
 situ.
- situ. Cerebrovascular reactivity to angiotensin and angiotensin-converting enzyme activity in cerebrospinal fluid. The vasomotor effects of angiotensin I (A I) and angiotensin II (A II) were examd. In feline cerebral arteries and angiotensin-converting enzyme (ACE) activity was detd. in the vessel wall and.
- Cerebrospinal fluid

Cerebrospinal fluid
(angiotensin-converting enzyme of, cerebrovascular response
to angiotensins in relation to)
9041-90-1. Angiotensin I 11128-99-7. Angiotensin II
RL: BIOL (Biological Study)
(cerebrovascular response to, angiotensin-converting enzyme
of cerebrospinal fluid in relation to)
9015-82-1. Angiotensin converting enzyme
RL: BIOL (Biological Study)
(of cerebral blond vessels and cerebrospinal fluid angiotensin

(of cerebral blood vessels and cerebrospinal fluid, angiotensins cerebrovascular effects in relation to)

- L1 ANSWER 114 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1937:513591 Document No. 107:113591 Nonuniformity of CBF response to NE- or ANG I1-induced hypertension in rabbits. Reynter-Rebuffel, Anne Marie: Aubineau, Pierre: Issertial, Odile: Seylaz, Jacques (Lab. Physiol. Physiopathol. Cerebrovasc., Fac. Ned., Paris. 75010, Fr.). American Journal of Physiology, 253(1, Pt. 2), H47-H57 (English) 1987. COOEN: AJPHAP. ISSN: 0002-9513.

 AB The regional response of brain vasculature to moderate hypertension was investigated using 2 hypertensive drugs norepinephrine (NE) and angiotensin II (ANG II). Infused i.v. at low concns. (increase in blood pressure 15-40 mmbg). Regional cerebral blood flow was measured in unanesthetized and anesthetized rabbits using the [14C] ethanol sath. technique. In both groups of animals. NE and ANG II induced regional differences in the flow changes as compared with controls. confirming a regional (or segmental) heterogeneity in the regulatory mechanisms to hypertension. The responses to identical rises in blood pressure (BP) in most of the structures analyzed depended on the drug used. In the unanesthetized rabbits, the increase in vascular resistance induced by NE was greater than that induce by ANG II. With the 2 drugs, there was no correlation between the flow changes in any of the structures considered and either the BP increase or the BP level in unanesthetized animals. However, these flow changes were correlated with the BP increase in anesthetized animals in hypertension are probably more complex than a simple myogenic reaction. Their heterogeneity and their dependence both on the cause of hypertension and on the presence of anesthetics suggest the intervention of an integrating pathway.

 AB The regional response of brain vasculature to moderate hypertension was investigated using 2 hypertensive drugs noreprinephrine (NE) and angiotensin II (ANG II). Infused i.v. at low concns. (increase in blood pressure 15-40 mmHg). Regional cerebral blood flow was measured in ... the BP increase in anesthe

(circulation in regions of, in hypertension induced by angiotensin II or norepinephrine, nonuniformity of) Hypertension

(from angiotensin II or norepinephrine, circulation in brain regions in, nonuniformity of)

Anesthesia

(in brain regional blood flow nonuniform response to hypertension induced by angiotensin II or norepinephrine)

- ANSWER 115 OF 123 CAPLUS COPYRIGHT 2003 ACS
 7:189820 Document No. 105:189820 Specific binding of atrial natriuretic factor in brain microvessels. Chabrier, Pierre E.; Roubert. Pierre; Braquet, Pierre (Res. Lab., Inst. Henri Beaufour, Les Ulis. 91940, Fr.).
 Proceedings of the National Academy of Sciences of the United States of America. 84(7). 2078-81 (English) 1987. CODEN: PNASA6. ISSN: 0027-8424. The binding of 1251-labeled rat atrial natriaretic factor (99-126) (1) [88998-17-3] to pure bovine cerebral microvessel prepns. was examd. Satn. and competition expts. demonstrated the presence of a single class of 1-binding sites with high affinity (dissoon. const. .appx.10-10M) and with a binding capacity of 58 fmol/mg of protein. The binding of radiolodinated I to brain microvessels was specific, reversible, and time dependent, as was shown by assoon. -dissoon. expts. The demonstration of specific 1-binding sites on brain microvessels supposes a physiol. role of I on brain microvasculature. The coexistence of I and angiotensin II receptors on this cerebrovascular tissue suggests that the 2 circulating peptides may act as mutual antagonists in the regulation of brain microvirculation and(or) blood-brain barrier function.

 . specific 1-binding sites on brain microvessels supposes a physiol. role of I on brain microvasculature. The coexistence of I and angiotensin II receptors on this cerebrovascular the coexistence of I and angiotensin II receptors on this cerebrovascular the coexistence of I and angiotensin II receptors on this cerebrovascular and and the manufactor of I and angiotensin II receptors on this cerebrovascular and an and an admit the regulation of brain microvessels supposes a button and protests that the 2 circulating peptides may act as mutual antagonists in the regulation of brain microvescular the suppose a publication and protests and the regulation of brain microvescular and the protest may act as mutual antagonists in the regulation of brain microvescular and the protest may act as mutual antagon

 - blood-brain.

Page 50

ANSWER 114 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

Circulation
(of brain regions, in hypertension induced by angiotensin
II or norepinephrine, nonuniformity of)

restraint stress receptor

TRECEPTOR'S PECEPTOR

TRECEPTOR'S

RL: BIOL (Biological study)
(cholinergic, cerebrovascular systems in restraint stress
regulation by)

IT Stress, biological

(restraint, cerebrovascular system in, receptor regulation

Receptors RL: BIOL (Biological study) (.alpha.-adrenergic, cerebrovascular systems in restraint stress regulation by)

RL: BIOL (Biological study)
(.beta.-adrenergic, cerebrovascular systems in restraint

- ANSWER 118 OF 123 CAPLUS COPYRIGHT 2003 ACS 5:89883 Document No. 102:89883 Cerebrovascular aspects of converting-enzyme inhibition. I: effects of intravenous captopril in spontaneously hypertensive and normotensive rats. Barry, David I.; Jarden, Jens O.: Paulson, Olaf B.; Graham, David I.; Strandgaard. Svend (Dep. Psychiatry. Rigshosp., Copenhagen, DK-2100, Den.). Journal of Hypertension, 2(6), 589-97 (English) 1984. CODEN: JOHYO3. ISSN: 1053-6352
- hypertension, 2(0), 597-97 (English) 1994. CUDEN: JUDIUS. ISSN: 0263-6352.
 The cerebrovascular effects of angiotensin-converting enzyme (9015-82-1) inhibition were examd. In normotensive and hypertensive rats. Cerebral blood flow was measured using the intracarotid 133% injection method in halothane/N2O-anesthetized animals. Following. V. administration of captopril [6527] 68-62] (10 mg/kg), cerebral blood flow was unchanged from baseline levels. both the lower and upper limits of autoregulation were reset to lower mean arterial pressure and the autoregulation were reset to lower mean arterial pressure and the autoregulation y plateau was shortened. The lower limit was shifted 20-30 mm Hg, the upper limit 50-60 mm Hg, and the plateau shortened by 20-40 mm Hg. The effect resulted from compensatory autoregulatory constriction of small resistance vessels in the brain following captopril-induced dilatation of large resistance vessels. Thus, locally produced angiotensin II might play a role in the resistance of large cerebral arteries. Cerebrovascular aspects of converting-enzyme inhibition. I: effects of intravenous captopril in spontaneously hypertensive and normotensive rats.
- nonmotensive rats
 The cerebrovascular effects of angiotensin-converting enzyme
 [9015-82-1] inhibition were examd. in normotensive and hypertensive rats.
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 locally produced angiotensin II might play a role in
 the resistance of large cerebral arteries.

L1 ANSWER 117 OF 123 CAPLUS COPYRIGHT 2003 ACS
1985:179799 Document No. 102:179799 Cerebral vasomotor action of angiotensin II. Reynier-Rebuffel. A. M.; Aubineau. P. F.: Pinard. E.; Meric. P.: Seylaz. J. (Lab. Physiol. Physiopathol. Cerebrovasc.. Univ. Paris VII. Paris. 75010. Fr.). Circulation et Metabolisme du Cerveau. 1(3). 251-8 (French) 1984. CODEN: CMCCEN. ISSN: 0264-6900. Octations of angiotensin II [11128-99-7]
Unilateral infusion of angiotensin II [11128-99-7]
Into the carotid artery of rabbits produced a generalized decrease in cerebral blood flow with a rise in cerebrovascular resistance of 13-41% depending on the area examd. Evidently, angiotensin II has an indirect action on cerebrovascular motricity. Cerebral vasomotor action of angiotensin II [11128-99-7]
Into the carotid artery of rabbits produced a generalized decrease in cerebral blood flow with a rise in cerebrovascular resistance of 13-41% depending on the area examd. Evidently, angiotensin II has an indirect action on cerebrovascular motricity.

Angiotensin II circulation brain Brain (circulation of, angiotensin II effect on) Blood vessel (motricity of, of brain cerebrum, angiotensin II effect on) IT Circulation (of brain, angiotensin II effect on)

193:465089 Document No. 99:66089 Generalized cerebral vasoconstriction induced by intracarotid infusion of angiotensin II in the rabbit. Reynier-Rebuffel. Anne Marie: Pinard. Elisabeth: Aubineau. Pierre Frederic. Revier. Philippe; Seylaz. Jacques (Lab. Physiol. Physiopathol. Cerebrosvasc., Univ. Paris VII. Paris. 75010, Fr.). Brain Research. 269(1) 9-101 (English) 1933. COORN: BRREAP. ISSN: 0006-8993.

AB The influence of angiotensin II (1) (11128-99-71. perfused into 1 common crotid artery at 0.065 .mu.g/kg/min. on cerebrovascular resistance was investigated in the anesthetized rabbit by complementary in vivo methods. Heat clearance and mass spectrometry measurements indicated that in the homolateral caudate nucleus I decreased local blood flow (18.2%), decreased pO2 (14.2%), and had no effect on pCO2. The [14C]EEOH tissue sampling technique revealed a decrease in flow in all 10 structures sampled in the brain. This decrease was similar in magnitude in both the ipsilateral and the contralateral hemisphere with regard to the site of injection. When expressed in terms of cerebrovascular resistance (CVR) and allowing for a Slight increase in blood pressure (10%), these results show that I infusion induced an increase in CVR of 18-32%. Thus, a unilateral intracarotid infusion of a low dose of I induces an increased vascular tone in all cerebral structures and this action, being bilateral, cannot readily be explained by a direct action of I on the cerebral vessels in view of the very low recirculating conco. of I. The hypothesis of a cerebral vascomotr influence of 1 by action on a central structure is discussed.

Generalized cerebral vascomostriction induced by intracarotid infusion of angiotensin II in the rabbit II (1) [11128-99-7]. perfused into I comon carotid artery at 0.065 .mu.g/kg/min, on cerebrovascular resistance was investigated in the anesthetized rabbit by complementary in vivo methods. Heat clearance and mass spectrometry measurements indicated that. . . . in both the ipsilateral and the contralatera

brain angiotensin II Blood vessel (constriction of, from angiotensin II in brain cerebrum)

Circulation
(of brain cerebrum, angiotensin II effect on)

The ability of prostacyclin (I) [35121-78-9] to reverse contractions of human basilar arteries in vitro that were induced by a wide range of substances implicated in the etiol. of cerebral arterial spasm was exand. I (10-10-10-64) caused a dose-related reversal of contractions induced by 5-HT [50-67-9], noradrenaline [51-41-2], angiotemsin II [11128-99-7]. PGF2.alpha. [551-11-1], and U-46619 [56985-40-1]. These agents were tested at concins. or vols. that produced almost max. or max. responses and those that produced approx. 50% of the max. response. Contractions induced by max. concins. of angiotensin II and U-46619 were least affected by I. In addin. contractions induced by TXA2 [57576-52-0] generated from guinea pig lung were reversed in a dose-dependent fashion by I. This ability of I to physiol. antagonized contractions of the human basilar artery in vitro induced by high concins. of various spasmogenic agents suggests that such a potent vasodilator agent or more stable analog may be of value in the treatment of such disorders as cerebral arterial spasm following subaracknotic hemorrhage.

the treatment of such disorders as cerebral arterial spasm following subarachnoid hemorrhage.

. of cerebral arterial spasm was examd. I (10-10-10-6M) caused a dose-related reversal of contractions induced by 5-HT [50-67-9]. noradrenaline [51-41-2], angiotensin II [11128-99-7], PGF2.alpha. [551-11-1]. and U-46619 [56985-40-1]. These agents were tested at concns. or vols. that produced almost max. or max. responses and those that produced approx. 50% of the max. response. Contractions induced by max. concns. of angiotensin II and U-46619 were least affected by 1. In addin. contractions induced by TX2 [57576-52-0] generated from guinea pig lung were. . agent or more stable analog may be of value in the treatment of such disorders as cerebral arterial spasm following subarachnoid

L1 ANSWER 121 OF 123 CAPLUS COPYRIGHT 2003 ACS
1982:538371 Document No. 97:138371 Reversal of experimental acute cerebral vasospasm by angiotensin converting enzyme inhibition. Andrews, Philip; Papadakis, Mitcholas; Gavras, Haralambos (Dep. Med., Boston Univ., Boston, MA. 02118, USA). Stroke, 13(4), 480-3 (English) 1982. CODEN: SJCCA7.

ISSN: 0039-2499. teprotide [35115-60-7]. An angiotensin converting enzyme inhibitor, partially or totally reversed the acute arterial spasm induced in dogs by intracisternal introduction of autologous blood. Thus, angiotensin II [11128-99-7] may play a role in the cerebral vasospasm obsd. following introduction of blood into the subarachnoid space and converting enzyme inhibitors may be clin. useful in the prevention or reversal of cerebral arterial spasm following

the prevention or reversal of cerebral arterial spasm following subarachnoid hemorrhage.

. . . enzyme inhibitor. partially or totally reversed the acute arterial spasm induced in dosp by intracisternal introduction of autologous blood. Thus, angiotensin II [Ill28-99-7] may play a role in the cerebral vasospasm obsd. following introduction of blood into the subarachnoid space and converting enzyme inhibitors may be clin. useful in the prevention or reversal of cerebral arterial spasm following subarachnoid hemorrhage. angiotensin vasospasm subarachnoid hemorrhage: teprotide brain vasospasm inhibition Artery. disease or disorder

Artery, disease or disorder

(spasm. from subarachnoid hemorrhage, teprotide prevention of)
11128-99-7

IT

RL: BIOL (Biological study)
(in vasospasm from subarachnoid hemorrhage)
35115-60-7

RL: BIOL (Biological study)
(vasospasm from subarachnoid hemorrhage prevention

ANSWER 120 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

L1 ANSWER 122 OF 123 CAPLUS COPYRIGHT 2003 ACS
1982:504042 Document No. 97:104042 Reversal of experimental delayed cerebral vasospasm by angiotensin-converting enzyme inhibition. Gavras. Haralambos: Andrews. Philip: Papadakis. Nicholas (Boston City Hosp., Boston Univ. Boston. MA, USA). Journal of Neurosurgery, 55(6). 884-8 (English) 1981. COONE: JONSAC. ISSN: 0022-3085.

AB Delayed cerebral arterial spasm was documented by angiog. 72 h after introduction of blood in the subarachnoid space of dogs. Following injection of the angiotensin-converting enzyme inhibitor. teprotide (1) (25115-60-7), repeat cineangiograms at 30. 60, and 90 min demonstrated partial or total release of spasm of the basilar artery and its branches. Thus angiotensin II (11128-99-7) participates in the delayed cerebral vasospasm after hemorrhage, and angiotensin inhibition may release the spasm and prevent cerebral ischemia.

AB . . . 30. 60. and 90 min demonstrated partial or total release of spasm of the basilar artery and its branches. Thus angiotensin inhibition in II (11128-99-7) participates in the delayed cerebral vasospasm after hemorrhage, and angiotensin inhibition may release of spasm of the hospital artery and its branches. Thus angiotensin in II (11128-99-7) participates in the delayed cerebral vasospasm after hemorrhage, and angiotensin inhibition may release the spasm and prevent cerebral ischemia.

SI cerebral vasospasm subarachnoid hemorrhage teprotide: angiotensin converting enzyme cerebral vasospasm (Subarachnoid, vasospasm from, teorotide reversal of.

(subarachnoid, vasospasm from, teprotide reversal of,

(subarachnord, vasopsam from LeproLide Fereisal angiotensin II in relation to)
Artery, disease or disorder
(cerebral, spasm, from subarachnoid hemorrhage, teprotide reversal of, angiotensin II in relation ŧΤ

IT Brain, disease or disorder
(vasospasm, from subarachnoid hemorrhage, teprotide
reversal of, angiotensin II in relation to) 11128-99-7

RL: BIOL (Biological study)
(cerebral vasospasm from subarachnoid hemorrhage in relation to)

35115-60-7

SILE-00-7
RL: BIOL (Biological study)
(cerebral vasospasm from subarachnoid hemorrhage reversal by, angiotensin II in relation to)

- 1.1 ANSWER 123 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1982:46604 Document No. 96:46604 The effect of inhibition of dopamine-beta-hydroxylase on cerebrovascular carbon dioxide and autoregulation. Kobayashi S.: Kitamura. A.: Furuhashi N.: Kanda. T.: Tazaki Y. (Dep. Internal Med., Shimane Med., Liv., Izumo. 693. Japan). Pathophysiol. Pharmacother. Cerebrovasc. Disord., Satell. Symp.. 2nd, 48-51. Editor(s): Betz. E.: Grote. J.: Heuser. D. Witzstrock: Baden-Baden. Fed. Rep. Ger. (English) 1980. CODEN: 465XMH.

 AB To det. the importance of the noradrenergic nervous system for the regulation of CO2 reactivity and autoregulation, the effect of fusaric acid. a dopamine beta-hydroxylase inhibitor. was studied in cats. The increase of thalamic blood flow in response to raised arterial CO2 (induced by inhalation of 58 CO2) was greater after than before fusaric acid infusion. The CO2 reactivity index increased from 4.74 to 8.31. with no increase in mean arterial blood pressure. In hypotension induced by exsanguination. the autoregulation index decreased in both the subcortex and medulla in response to fusaric acid. In hypertension induced by angiotensin II. Insaric acid altered, neither neoullary blood flow nor the autoregulation index. Thus. the noradrenergic system may have an inhibitory action in cerebrovascular dilation during hypeterapnia, and may participate in cerebrovascular autoregulation cerebrovascular dination during hypetersion.

 AB . exsanguination. the autoregulation index decreased in both the subcortex and medulla in response to fusaric acid. In hypertension induced by angiotensin II. fusaric acid altered, neither medullary blood flow nor the autoregulation index decreased in both the subcortex and medulla in response to fusaric acid. In hypertension induced by angiotensin III. fusaric acid altered.